

# From The STAFF

W.T.F.D.A. Headquarters, P.O. Box 514, Buffalo, NY 14205

BRRRRRRRR!...The Winter of '85 has been terrible for many W.T.F.D.A.ers. Severe weather has caused some DXers to make plans for new antenna systems they'll be needing, due to some high winds and heavy icing. You may be reading this issue a few days later than usual due to delays in production related to all the rotten weather. We think this edition may be one of the most interesting mid-winter VUDs in many years, so we hope you'll excuse us, read on, and enjoy!

A NEW W.T.F.D.A. TV STATION GUIDE?...EASTERN TV DX columnist Bill Draeb has completed a rough draft of the data for a new edition of this popular book, which has been out of stock for many months. However, much work remains to be done on the project. Rising printing and shipping costs now determine how long it will take for this DXing reference to be completed, and its unique stations-by-channel maps will make this book much more suited to the TV DX enthusiast than any other reference, while taking additional time to complete. Your comments are welcome on this project anytime--and a big thanks goes to Bill for his work!

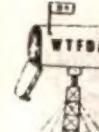
GDXCI TV LOGBOOK...Speaking of such references. Gateway DX Club International, a St. Louis DX group, needs help from the W.T.F.D.A. Membership in compiling the first edition of the GDXCI TV Logbook. W.T.F.D.A.er Rich Eddie (GDXCI TV Corner editor) can be contacted about this at 152 West Rose, St. Louis MO 63119.

SUSTAINING MEMBER PROGRAM...Who really keeps a DX club going strong? Besides the volunteers who do the work, there are those who contribute more than than usual and practically are never acknowledged. W.T.F.D.A. has a number of these great people as members, and many of them prefer to remain anonymous. For these folks, we've created the Sustaining Membership. For anyone contributing \$10 or more to the club (in the form of funds or supplies such as mailing labels, envelopes, etc.) in addition to their basic dues, we'll award a certificate suitable for framing. No one in W.T.F.D.A. is expected to pay any more than the basic dues rate, but we've been looking for a way to thank those who do this when they renew every year. More about this in upcoming issues.

NEW ORLEANS '85...Early August 1985 may be all of 6 months from now, but as they say, time flies. Start thinking now about attending your club's convention in the Greater New Orleans area this summer--it's one of the South's most enjoyable tourist destinations, and the site of one of our most enjoyable past conventions. See y'all there!

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Logos on pages 11 and 21 are from Richard Eddie, St. Louis MO.



# MAILBOX

February 1985

Alan Hyams  
P.O. Box 130  
City Island Sta.  
Bronx, NY 10464

I had figured that my editorial last month concerning Doug Dornbos' column would elicit some response, and I wasn't disappointed. So, here are excerpts from the letters of those who wrote in with their comments:

**Wendell Ford:** "I think that Doug Dornbos' comments in the December issue of VHF-UHF Digest were very appropriate, especially at the time of year. If it were in July I'd admit that it would be out of place... I do not think that the religious reference in one issue per year is going to hurt the feelings of the "religion-free" people in the club."

**Bill Draeb:** "It would be nice to eliminate all religious comments from the VUD; that way no one would be offended. However, in our everyday lives we run across things that we don't agree with or don't like, but we have to live with them or ignore them, and most of us have no trouble with that. That's why I see no big deal about Doug's poem. After all, why do we celebrate Christmas anyway? I suppose if I asked the average "Joe" on the street, I would get more than one answer, but I shouldn't. Christmas is the celebration of the birthday of Christ. If some people disagree or think it's just another day off from work, that's their business; and if Doug wants to share the real meaning of the holiday season, he's entitled to. Those who feel offended shouldn't read it or should ignore it."

Although it was meant only in jest, I didn't appreciate Bill Fahber's comments equating Mondale - Ferraro with the Three Stooges. But, like I said, you have to ignore stuff like that if you don't like it."

**Dr. Bruce Elving:** "On the subject of religion, I think it is fine to express one's faith in a club column. The club is a private organization and the editors are donating of their time. Some people may be offended, but it is a Christian's right and even responsibility to share the faith and even to proselytize. I object, however, to many of my fellow Christians thinking that this is a "Christian nation", thus justifying trying to get legislation to mandate prayer in the public schools, or even a moment of silence. These efforts strike me as being at variance with the Constitution and its protections of minority viewpoints, as well as the doctrine of separation of church and state."

**John F. Combs:** "To be honest, I feel that anyone who is offended by Doug's poem is overreacting. It would be a sad day in this country if we lost the right to express our individual religious faith, or lack of it. While I agree that the VUD is not a religious forum, and should not be used as such, the innocent nature of Doug's poem makes any protest fatuous. A person's religious faith has a lot to do with a person's character and personality, and denying him the right to express that faith in a non-threatening way is to deny him the right to express a very important part of himself."

Next month: Back to the logging procedures debate, with comments by Dr. Elving and Harry Hayes; plus much, much more!

Till then, '73s,

*Si*

**KTH**  
1000

**WLS**  
AM 89 & FM 94.7

**KLOS 95 1/2**

4515 Avenue "E"  
Kearney NE 68847-2610  
Contributions invited!

KSNA 107.5 -295' (100000 h,v)  
AR Fort Smith KFPW-FM 100.9 3000 h,v; 200'  
AR Marion KFTV 107.1 330' (3000 h,v)  
CA Burney \*90.5 2320' (410 h,v)  
CA Garberville KERG stays on 100.1; will  
not go to 104.3, but applies for 104.7  
as a full Class C. List on 100.1 as 40  
watts horizontal and vertical; 2530'  
CA Oildale KLLY 95.3 2200 h,v; 345'[1265]  
CA Red Bluff KGB 95.7 (from 95.9) 7000h,v  
CA San Diego KGB 101.5 7000 h,v; 1100',  
reduces coverages to 48, 109 km  
CA Visalia KSEQ 97.1 23000 h,v; 580'; on  
air in stereo, rock (not hard)  
CO Glenwood Springs K2528X 98.3 (from  
K2880Z 105.5) [translator  
Eureka)  
CO Leadville K232- (KVOD 99.5) [over /  
KVOD lists calls as K2880Z, which would  
imply 105.5 operation, but they confirm it  
is on 94.3, as I second-guessed they would  
go to, rather than 93.5, which is where  
KRMH-FM Leadville CO is to broadcast on.  
CO Fort Myers WSR 95.3 330' (3000 h,v)  
FL Titusville WAJX 98.3 330' (2000 h,v)  
HI Wailuku \*88.7 1330 h,v; 550', giving  
it coverages of 41, 84 miles—probably  
the highest HAAT in US or Canada.  
IL Zion WNIZ 96.9 50000 h,v; 48000 v (500',  
highly directional); is carrying, along  
with WNIB 97.1 Chicago, 6 spots a day for  
the FM Atlas. Calls change from WNIZ-FM.  
IN Loogootee WMMO 94.3 1800 h,v; 425'  
IN South Bend WNSN 101.5 13000 h,v (970')  
IA Boone KFCQ-FM \*99.3 2500 h,v (345')  
KS Lyons KLFQ 106.1 330' (62000 h,v)  
KS Topeka KMAJ 107.7 460' (100000 h,v)  
LA Shreveport KDAO \*89.9 930' ("")  
ME Bangor WHCF \*88.5 directional [910']  
MD Braddock Heights WZYQ-FM 103.9 420 h,v  
MI Charlotte WMMQ 92.7 1300 h,v (485')  
MS Booneville WBIP-FM 99.3 300' (3000 h,v)  
MS Hattiesburg WHER 103.7 100000 h,v; 995'  
MS Laurel WNSL 100.3 325' (100000 h,v;  
reduces coverages)  
MT Missoula KYSS 94.9 15000 h,v; 2510'  
NE Falls City KTN-C FM 95.3 970' (power not  
announced, but I assume it to be reduced  
to 320 h,v, to allow for Class A coverage)  
NY Middleton WKGL 97.2 3000 h,v (320')  
NY Syracuse WMH 102.9 15300 h,v; 780'  
PR Hickory WKRC 95.7 1275' (100000 h,v)  
PR Humacao W272A1 102.3 (WLID Vieques Isl.)  
PR Naguabo W272A1 102.3 (WLID Vieques Isl.)  
ON Sudbury 90.1 \$, c 48000; CBL-FM relay  
\* 90.9 \$, c 48000/ CBF-FM relay Fr.  
FACILITIES\* CHARLES GRANTED  
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AL Enterprise WHMX 106.7 1070' " "  
AL Mobile WBLX 92.9 1090' " "  
AK Anchorage KWHL 106.5 -89'  
" " "  
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AK Anchorage KWHL 106.5 -89'

IN Danville 107.1 WATI (WGRT), b music  
IN Monticello 95.3 WLZR (WNET)  
MI Pittsford \*91.1 WURC  
MO Lebanon \*89.9 KTKT  
MO Liberty \*91.9 KQCB (from KWPB)  
MO Marshall 102.9 KMMO-FM (KMFL)  
MO Piedmont 104.9 KWPB-FM (KWPB)  
MT Libby 101.7 KWAU [several translators]  
NV Carson City 97.3 KWNZ (KKBG; affects /  
NV Gardnerville-Minden 99.3 KTRD  
NM Alamogordo \*89.5 K208AS (not K208AR)  
NM Santa Fe 97.3 KQSS (KAFB-FM)  
NY Buffalo 96.9 WGR-FM (WGRO), r, no "97  
Rock" any more; all 6 WGRO jocks fired  
NY Elizabethtown 99.3 WELV-FM (WDORE)  
NC Eden 94.5 WWI (WSRO)  
OH Akron 97.5 WONE-FM (WAEZ; WONE AM  
apparently stays in Dayton OH), light r  
OR Merrill \*88.7 K204AF  
OR Newport 102.5 KBNK (KWBV)  
PA Harrisburg 104.1 WNNK-FM (WTPA)  
PA Lewistown 95.9 WMRB-FM (WMRF-FM)  
SD Sioux Falls \*88.1 KRSO (KKBP); 1250 h,  
v; 185'. TX Cotulla 97.7 KDCY  
TX San Angelo 107.5 KSJT-FM\*  
VA Newport News 97.3 WNSY (WNSY-FM; nonID  
assumed dropped or changed)  
VA Orange 96.7 WVJZ (WVJA-FM)  
WA Bellevue 92.5 KLSY-FM (KLSY; nonID  
assumed dropped or changed)  
WA Pasco \*88.1 K201AG [ID translator]  
WA Spokane 98.1 KISC (KHQ-FM; affects 1 /  
WA Elkins 99.3 WNT (WNE-FM)  
WA South Charleston 100.9 WJCU  
WY Casper 94.5 KATI-FM (KAWY; affects  
two translators)  
AT Hinton 88.1 CBX1 (replaces AM LPRT)  
ON Windsor 93.9 CKEZ (CFXX), b, never  
announces call, but strictly "EZ-94"  
CALIFORNIA: AR Texarkana 107.1 KTWN,  
as I had it, not KTWN-FM; "AM 940 is still  
KADQ, FM now; AM takes former FM format  
of soul."

**FORMATS/NETWORKS**

AK Kenai K2658J 100.9 changes input to  
SCA from KGTL-FM 103.5 Homer AK; both this  
and K272B8 Kodiac 102.3 will relay KGTL-  
AM 620; station has not replied to my in-  
quiry about their SCA use. An unique  
marriage of SCA and FM translators!  
AK Homer 103.5 KGTL-FM (not KGTG); KGTL-  
AM 620; station has not replied to my in-  
quiry about their SCA use. An unique  
marriage of SCA and FM translators!  
AK Soldotna-Kenai KENY 101.7 (dual city  
10, thanks to translator coverage), rm  
CA Cambria KOTR 94.3 mi, some c; not known  
if stereo.  
CA Grass Valley KNGO-FM 94.3 back to m  
CA Grover City KLOI 107.1 mr  
CA Mendocino KMF 2 and K244AH Ukiah-Willits  
36.7 now r; ids as "Mendocino-Willits"  
FL Orlando WHQO-FM 96.5 no NBC  
HI Hilo KFSH 97.1 g (not cg); expects to  
[finally] be on air 4-1-85  
ID Boise [ID with Garden City] KCJY 105.9  
r, "K-105," not known if stereo or not  
ID Caldwell KBXL 94.1 b  
ID Coeur D'Alene KODA 103.1 r  
ID Mountain Home KJCY-FM 98.3 k  
ID Weiser KWEI-FM 99.3 i  
ID Mount Carmel WYER-FM 94.9 rock

IL Ottawa WRKX 95.3 r, FM-95 (from 95-X)  
IL Peru WLFZ 100.9 r, S network (from  
Mutual), "FM-101," on 24 hours/day  
IN Richmond WRIA 101.3 k [102]  
MD Bethesda WTKS 102.3 r (soft), "Magic/  
MA Boston WGBH \*89.7 c (9 hrs/day jazz)  
WCOZ (seeking new call letters)  
100.7 r, "The New FM-100" (was b)

**BOSTON'S ONLY  
EASY LISTENING FM  
RADIO STATION  
IS AT FM 97.**

**WJIB  
FM 97**  
[6.9 on your digital radio]

CO Castle Rock KADX 92.1—admitted it is  
because of rim-shot considerations; may  
try for \$ in future; I advised them to  
have it shut-off when carrying long  
monophonic cuts (j).  
**FM MISTAKES**—9th ed. Ft. Atv or Taxis [p. 79]  
Collision Errors PG Val Morin CIME-1 (not-1)  
MO St. Mary's City \*91.7 given as MU,  
VUD, Dec., p. 11.  
MI Sault Ste. Marie WSUE is on 101.3,  
not 103.3 as given in Jan. VUD, p. 7  
NY Jamestown p. 97 FM Atlas WNSY 93.3 \*  
PA Kearsarge WSEGT, p. 101, change to rp  
SC Myrtle Beach W232AD no frequency given  
p. 11 Dec. VUD, is on 94.3  
TN Covington W232AC is on 94.3 ("")  
UT St. George KRCG \*99.3 p. 105 no \$; p.  
130 \$; is Stereo  
WV Morgantown p. 22 \*91.7 WVU add to  
map says reporter, but I will leave it  
out, as not enough P/F coverage to be  
included; only "selected" stations are  
shown on bordering states' maps. My  
method of "selection" is not meant to be  
scientific or systematic—it is based  
on what I feel at the moment should be  
included or excluded when doing the maps.  
WV Wheeling Oct. VUD had 97.3 instead of  
98.7 for WOVK. "So, the station which  
should have the map p. 39 calls changed  
to WOVK is WCP1 98.7, not WVK 97.3,"  
notes Richard Reese, who finds errors  
even in lists of errors. "The -FM suffix  
ed calls I sent you were based on infor-  
mation from NRC bulletins. Some of the  
changes happened some time ago, at the  
same time the FMs changed." [67 kHz]  
WI Hastings KEZB 101.5 voice paging (P+)  
NY Albany WHRL 103.1 drops 92 kHz Mutual  
[E] Fairbury KUT 93.3 +X (telemetry)  
NE Grand Island KSYZ 107.7 -X (data)  
NH Mount Washington WDM 94.9 no 67 kHz  
SCA; looking for a use for it; I sug-  
gested to them they use it for NOAA weather  
PQ Kuujjuaq Part I shown 89.9, part II  
as 96.9; is 89.9 [CKWJ]

Contributors, January, 1985 VUD: Frank Aden, Jr., Boise ID; Thomas V. Cornell, Greenbloom IN; Chuck Crisler, Greenwood AR; John Ebeling, Bloomington MN; Joseph Fela, South Plainfield NJ; Bill Fletcher, Madison WI; Wendell Ford, Westville IN; Larry Fuss, Jackson GA; Al Germond, Columbia MO; Robert Grant, Detroit MI; Paul E. Hake, Bridgeport TX; Robert Hughes, West Hurley PA; John M. Jefferson, Pleasanton CA; Robert A. Linder, Dover NJ; Nick Lombardi, Atlanta GA; Wayne Mc Cormick, KSMT (FM) Breckinridge CO; W. R. McIntosh, Granada Hills CA; George Milson, Lynn MA; Raymond J. Nemec, Naperville IL; David J. Nieman, Akron NY. Also Peter A. Nolan, Galveston TX; Gary Olson, Lake Forest IL; Michael Parks, Amery WI; Jim Pizzi, Lovington NM; RichardReese, Jersey Shore PA; Jeff Scolnick, Westford MA; Jim Simpson, Cullman AL; Richard J. Steinberger, Hudson MA; Peter V. Taylor, San Francisco CA; Stephen Tuura, St. Catharines ON; Don Wilkerson, Redwood City CA; Ben R. Wilkie, York ME.

My IBM Composer broke down right after typing last month's column, so in the meantime I have this manual Hermes standard type-

writer with two ribbons, 17-pitch. Hope this is readable!

"WJIB's claim to being the only beautiful music station in the area is only partially correct, since listeners in the western suburbs can hear WSRS from Worcester quite well while those in the southern suburbs can hear WLKF-FM from Providence and WORC from Barnstable. Incidentally, Boston's suburbs have approximately five times the population of Boston itself," says Larry Weil. WCOZ asking listeners to call 617-266-0010 and tell them what they would like to hear; so Larry asked for jazz. He works as an engineer for SETZEN (WNEW-TV Boston), and "spending a lot of time doing volunteer work for the nonsmokers rights movement... Thank you for your continued dedication to the hobby of DXing and for the help you provide to all of us through your column and the atlas." [I appreciate the work you are doing in helping to bring about a smoke-free environment; I think far fewer DXers smoke than is true in the general population.] KBSU '91.3 Boise hoping either to help start a separate public FM station in Idaho, or getting an NPR affiliation for itself, having both student and professional operation. KCIX 105.9 Boise on 24 hours.

Dave Nieman: "I hope all that I've been reading in your column about the Buffalo, Toronto and Hamilton area on new FM stations is not true. There has not been anything in the Buffalo News about the stations on 89.5 or 101.1." He sent a clipping about WRNJ AM Hackettstown NJ trying to wrest 99.1 from WAWZ (FM) for a station of its own in nearby Somerville NJ. WAWZ said to serve a 40-mile radius, including New York city; WRNJ filed against WAWZ's license in 1981; FCC review board has ruled in favor of "WAWZ, but an appeal is expected.

Georgia's WRHM, in deference to owners of digital tuners, now "Warm 99.7," while WSB-FM 98.5 has no plans to change from "99-FM." Nick generally supported my formats for SCA, but says not to list "FM" for weather, since no stations are currently using it. He'd add R for ARI tones (Blaupunkt's read information system at 57 kHz), and different letters for 92 kHz from 67 kHz, retention of the + SCA symbol and not using two columns because of problems of column alignment. "I see you got a good writeup in the January *Popular Communications*. Interesting that they imply the book is 'new,' when in reality the data are now

seven months old!" I also hear Glenn Hauser mentioned the book on his "World of Radio," WRNO and syndicated to public stations. I tried to get the DX show on the talk network during the wee hours of Dec. 15, but no reception from any of the listed stations possible in NE. Even WABC couldn't be separated from KOB.

Dr. Richard Wood on the ABC talk show: "It kept me on my toes, since the questions from listeners were almost inaudible via KABC studio phone link. After KGU 760 Honolulu began carrying the program I listened there to the questions, and got back to the phone for the answer. . . . It ran the full five hours."

In other AM news, WOVO 1190 Fort Wayne IN transmitting test data on an SCA. I tried one night to pull it in, having a good radio on the bench, but could only get KJLA Kansas City, no WOVO available here. WOVO said to be offering the data fulltime, so try hooking your SCA adapters to your AM radio detector, and tell me what it sounds like!

Allen Lloyd, High Point NC, says he operates an FM translator onto a conventional FM radio, using SCA and his own taped programming on "the unorthodox frequency of 108.5 mHz, but am seeking a frequency within the commercial FM band for a larger audience." I shared with him my article which was in the June, 1983, Popular Communications, "How I Built an FM Translator—I even thought it was legal!"

Pete Nolan's "M Street Journal" lists as new stations, but I have seen nothing official on the following:

FL 103.5 Panama City Bay Media, WANM, Inc. NJ Jersey City

KS 107.9 Great Bend Breadbasket Ent. ; 105.9, Antonin-Gar-  
MI 94.7 Gulliver American Peakes, Ltd. cia, replaces WHB  
Pete says KULM 98.3 Columbus IX drops the satellite, but  
remains k[ountry]. William L. Scully: "I read your column  
every month from beginning to end... I appreciate getting  
this information and thank you for your continuing efforts to  
put the column together month after month."

"Having owned a Sony RFA-100 since August (and use almost every day on both AM and FM stereo) I feel my own testing has been pretty extensive," says Robert Grant, who has heard separation on 24 AM stereo stations. "I am compelled to respond to comments in 1-85 VUD. I agree with Al Germond that a whistle filter is important. The carrier of an adjacent-channel station causes far more damage than the sidebands of said station. The problem of platform distortion is NOT persistent, it is almost never a problem during the daytime and is not a problem at all where the independent-sideband system is used (as at WQXR New York). . . Sony absolutely did not design the radio to perform poorly on FM so that AM would sound better by comparison. . . p. 11, para. 9: 'A car rx has to be much, much more immune to interference. This can only be done with narrower bandwidth'. I consider this a very cheap excuse

With narrow bandwidth? I consider this a very cheap choice for a cheap radio. You can always have a switch for high selectivity when needed, and completely omitting treble to reduce noise is like using a guillotine to cure acne. . . . Some of my own observations: 1) skywave signals STINK. Even though the stereo separation may be present, the effects of fading and adjacent-channel interference, as well as just plain noise, are horrendous. . . . 2) The industry should really look deep into a noise reduction system. . . . Noise reduction, combined with whistle filtration, can greatly extend the distance over which high fidelity AM is possible; 3) The FCC plans to start assigning AMs in the 1610-1700 KHz range in the early '90s, but the whole plan could flat fall on its face if nobody has the new settings on their radios. The FCC should put into effect an all-channel rule as soon as possible, banning AM-only as well as FM-only receivers and mandating full coverage of both bands. A similar law saved UHF television from certain doom in the 1980s. 4) There is a difference in AM stereo systems. . . . Let me know how the SCA job in the SRF-A100 goes."

Another Michigan reader, Phil Boersma, says "I've enjoyed your recent columns in the VUD, particularly the January one (yes, I'm still in the WFDNA, even though the computer omitted my name in the January membership list). As a sideline, here's an interesting look at a situation which may be unique in the United States: the case of the station that is 'rim-shutting' its own city of license. The station is WVRG 104.1 Grand Rapids. WVRG's coverage of Grand Rapids is spotty in the northwestern portion of the city and its suburbs, and the reason is interference from WQHQ 104.5 Muskegon. Why WVRG

and WZZR/WLHT (call change occurring a year ago) was 50 kHz at 310' (recently moving to a taller tower in eastern GR). Two class B FMs, or second adjacent channels, barely 25 miles apart! [See map Phil prepared and I photoreduced.]

Gene Cooper noticed my comments last month, p. 10 about an NAD tuner, and wondered what model. I don't know, but Gene uses the 4150 tuner, which "together with my 12-year-old Sherwood S-8900 receiver, makes me very happy with jazz reception from Los Angeles, 150 miles away." The new Anchorage AK station (buried in column 1, three pages back) on 89.3 seeks calls KABT, signifying Anchorage Baptist Temple; construction cost \$50000. Rod O'Connor is a volunteer at KMXT 100.1 Kodiak, "A regular grab-bag of formats, but a primary NPR affiliate. On air, as mentioned in the Oct. issue, is K29AU at Port Lyons, the fifth and final translator of KMXT. Also new on air is KENY Soldotna-Kenai 101.7. It is a satellite of KGTL-FM 103.5 Homer. It rebroadcasts everything from KGTL-FM, although they do have a separate studio for future use. . . . Alaskan Forces Radio Network has a new FM outlet at 91.5 at Galena in stereo. That's all I know about it, as they were promoting it on their AM network. Please enlarge the AK map in the next *Atlas*." [Perhaps

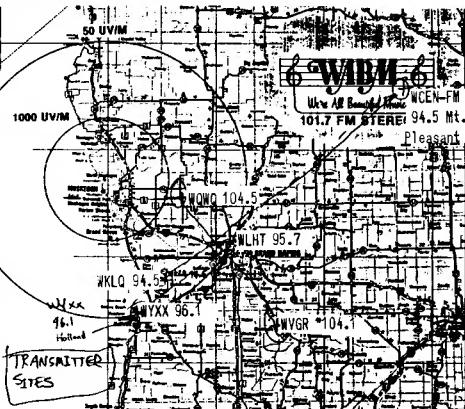
Rod, or my other AK reporter Mike Kohl could check further on Galena '91.5 and other military and Bureau of Indian Affairs FM stations said to exist in Alaska.]  
W. R. McIntosh reports channel 5 in Los Angeles has a

Spanish audio simulcast; and the chief engineer of WCIX, channel 6, has talked to me about supplying SCA radios for their proposed Spanish audio simulcast service, Miami FL.

More on AM stereo from design engineer Tom Cornell: "Harris (one of the system proponents) has agreed to become a licensee of the Motorola system and appears to have joined forces with them. . . Even though Kahn hasn't given up, this would almost suggest a 'de facto' standard. Leonard Kahn has been a very troublesome individual and may have some new tricks up his sleeve. All along, he has threatened law suits and kicked and screamed to get his way. More than anyone, he was probably responsible for the 'marketplace' approach which led to consumer confusion and limited acceptance of AM stereo. Now, things may pick up speed. . . Yesterday, I was testing one of our AM stereo sets in a 1985 Rolls-Royce! All their 1985 cars sold in the U. S. will have our radios and will include AM stereo. This vehicle cost \$107,000! It is the third Rolls I've been in, and I got to drive two of them home. . . The high quality is evident; however, I am just not that fussy about cars. There are many more things I'd rather spend my money on." Regarding educational FM and TV channel 6: "I'm glad the FCC finally acted on the matter. . . It hardly seems right that TV should be able to prevent development of a neighboring service. I would hope that the FCC leaned in favor of FM and adopted standards that push receiver design a bit but, perhaps, that

FCC-FM

has to play 'second fiddle' in parts of its own city of license to a station from another town is an interesting part of history. WVGR is old enough to be a 'grandfathered' class C operating in Zone 1. WVGR operates its transmitter with 110 kw ERP at 6000' HAAT, from a transmitter site in Middleville (co-located with WOTV-WOOD-FM). WQWQ operates from a transmitter site in Ravenna, 42 miles from WVGR's transmitter, but only 15 miles from the Grand Rapids city limits! WQWQ is 50 kilowatts at 360'. WQWQ originally appeared as an application in the mid-1960s. But the frequency originally applied for, and granted to WKJR-FM, now WABM, was 101.7A. But the FCC returned the original application, and told WQWQ to apply as a Class B on 104.5 instead. They did, and the station was granted 104.5 as a class B (this story told me by the original g. m. of WQWQ in the early '70s). WQWQ then utilised a few loopholes in the regulations to place its transmitter as close to Grand Rapids as possible. WVGR is, by power, a class C, but the FCC treated it as a Class B (even though if WVGR actually operated as a class B it would not cover Grand Rapids well enough to be licensed to that city!). Thus, WQWQ was able to place its transmitter in Ravenna—42 miles, the minimum B-to-B spacing for 2nd adjacent channels. The result is that in the northwestern portions of metro Grand Rapids (NW GR, Walker, to name two places) WQWQ's signal strength exceeds that of WVGR's.



WVGR is bothered by—or even drowned out by—WQWQ, particularly on less-selective radios, car radios, and ones with AFC; this occurs even in parts of Grand Rapids itself. If WVGR had been a well-financed, commercial operation, WQWQ would never have gotten away with placing its transmitter so close to Grand Rapids. But as it was (and still is) WVGR is a financially neglected "little sister" to educational WUOW in Ann Arbor, serving only as a glorified translator. Apparently WUOW doesn't care that at least  $\frac{1}{2}$  of Grand Rapids can't even receive WVGR properly: that WVGR is "rim-shottin'" parts of its own city of license.

"Another nifty allocations boondoggle: both FMs licensed to Holland. WLKLQ 94.5 is short-spaced to co-channel WKTI Milwaukee, and very short-spaced to co-channel WCEN-FM Mount Pleasant, technically a class C station! And yet, WLKLQ is allowed fullclass B power and height (50 kw at 500') from its site in Borculo MI. North of Grand Rapids, the battle between WCEN-FM and WLKLQ on car radios can be fierce! Also, WYXX 96.1 Holland is short-spaced to co-channel WHNN, a class C in Bay City, and 2nd adjacent WLHT 95.7, which until recently was located in WESTERN Grand Rapids, a transmitter site only 25 miles from WYXX! Again, the 'battle' between WYXX and WLHT/WZER could get very fierce, as one station splattered over onto the other, the dominant depending upon where in western Michigan you were at the time. WYXX (until recently) operated with 41 kw at 251'

at how many FM stations it would tune in. It also overloaded on the two local FMs which are some 3 to 5 miles away. You may have heard the broadcasters 'ballyhoo' this radio as an example of a multi-system AM stereo receiver. It is not a terribly good one if used in a car and is no demonstration of a multi-system decoder. Certainly not one we would consider. We require automatic system selection and equal treatment of the systems. It's my suspicion that unequal performance could present the manufacturer with legal problems, especially with Leonard Kahn around!" Tom wished us a Merry Christmas, and I want to thank everyone who wished us a good Christmas and a Happy New Year; and the best of DX to all of you in 1985!

Al Germond: "I suppose the last issue was the best because there were so many comments and views, about the only place anywhere to get such items in print. I am still waiting for John LaTour to get FCC go-ahead for his Jeff City translator modifications. We are of course subsidizing this unit, although under FCC regulations, assistance, payments, etc. can't begin until it is turned on and licensed. . . Once this is going, LaTour will work on Sedalia (93.5) where he has a site south of town on a tall mast. . . The whole idea is an exciting one though it understandably increases competition and depending on whose ox is being gored determines how a broadcaster might feel about these hillbilly stations. On a subsidy basis, the range of situations would seem narrow: St. Louis-size outlets would be reluctant to pay for translators in small, out-market communities, while small market stations probably wouldn't have the coin to subsidize a whole range of outlets unless real revenues came from those translator towns. I see translators working for us because the towns are really medium-size cities already partially familiar with our format (which is specialized) while not having a comparable local outlet. But if the economics don't pan out, it is our prerogative to review-

## KARO 102 FM

February, 1985

is not true on our unit. Switching the unit from AM mono to stereo increases bandwidth/decreasing selectivity. If I want to DX AM, I do it in mono. . . Like the Scott receivers of the 30s: variable selectivity—broad for fidelity, narrow for DX work. The AM stereo fidelity from the Delco or Sony units does not match FM, but it is good considering the band limitations. The Delco unit must have a 10 kHz whistle filter because I hear no inter-station whine. Lack of this filter dooms the Sony portables to just casual listening on local signals. AM stereo will help strong stations, particularly at the low end of the dial (where tuning is broad). . . but AM must trash some perceptions from the young ("who needs it?") and remember that programming determines popularity. Unfortunately for AM, coverage and technical considerations also matter. Since FM coverage (like TV) more closely parallels ADIs and SMSAs, that advantage is built in. Most metro areas have grown beyond the night coverage AM outlets produce, while FM offers that 24-hr. signal consistency and reach. What a grand stroke as midnite tolled Dec. 15 to let all Class IV graveyard AM outlets operate with 1 kw fulltime! But what a joke as well. Our experience shows only marginal increases in distance covered (going from 7 to 8 miles, for instance) but more noise and splatter to adjacent channels. The AM dial at night, at least in the east and midwest those cold winter evenings, is a war zone!

"I understand KUMO 97.7 Brookfield MO is back on the air. The AM and FM recently sold for \$21,000 (!) but I can't hear the FM because KKCA is a semi-local. . . The final Docket 80-90 list is interesting. A fair number of class A rimshots for larger markets; looks like 3 for the Springfield MO area and Olathe KS will shoot into greater Kansas City. . . And the bomb dropped by the FCC re: channel 6 interference looks ominous for educational stations. With Columbia sitting in a grade B channel 6 contour, our educational stations if not grandfathered in (and they are for now) would be in major trouble. KMO, ch. 6, here is a mess at 55 miles, with one station at 88.1 particularly troublesome. A solution would be for educational FMs to operate channel 6 TV translators in the affected areas [which the FCC suggested their doing in certain cases—b.e.]. Eventually, TV front ends will improve so this problem may go away. Similar problems are cropping up between the FAA and FCC and the 108-113 aero band, but better-grade VHF aircraft equipment in a few years should lessen the problem. Next time, I'll detail some reception (mobile) observations during a drive from NYC to D. C. where there are lots and lots of egregiously shortspaced stations where agreements have been signed to put up with mutual interference. One at 101.1 with full power class B outlets 85 miles apart is a real dilly!"

John Ebeling sent an article showing one aspect of FM's growth: the Minnesota Vikings have moved from WCCO (AM) to KSTP-FM. He also sent an ad from Viking International, Newhall CA, mentioning the Capri CD-01 subcarrier detector at \$210, while my catalog lists the identical unit at \$97!

Like Jim Pizzi suggested, I wrote the Mexican government for information on their FM stations, but no answer yet. I'll share what I find out, if and when they write. He, John Ebeling and I all had skip on FM Dec. 14.

Karl Forth, an NRC member, sent articles on Blaupunkt's ARI System and on Motorola's SCA tone-alert pager, and an article on SCA: a glamour medium? *Business Marketing*, July, 1983. Minnesota Monthly indicates KGAC "90.5 St. Peter MN may be on the air. KWED-FM 105.3 Seguin (pronounced "se-gheen"), see p. 5 January VUD, facilities change will really make it a San Antonio outlet, not a rim-shot. Transmitter will be at Eldorado TX, just outside San Antonio, with 1 m/w primary at 47 miles. When I was in San Antonio, the Cadillac radio would barely get KWED-FM on its old facilities.

An educational-religious group is seeking an FM license

in Idaho Falls ID, as well as three other ID cities. It is the Idaho Educational Broadcasting Foundation. This is similar to many applications around the nation for Class A-sized stations, with most programming to be supplied from a satellite feed from the American Heritage Radio Network. More than 69 hours would be devoted to general education, with nearly 63 hours light entertainment, 112 hours news, 71 hours performing arts and seven hours religious broadcasting. I think, however, most of the programming would be classified "G" gospel for religious programming, including all the hours of light entertainment.

An article in *Broadcasting*, Feb. 13, 1984, p. 201 discussed the more than 200 applications filed for religious foundation FM stations, noting two satellite networks to be employed, but with local people ostensibly heading up each application. A few construction permits have been granted, and I'd like to hear from reporters in areas where such stations go on the air if the stations are basically Q formatted and if they are stereo. There are even pile-ups of educational-religious applications, with hearings to select the ultimate winners. An example is 90.1 in Midland TX, with two or more applications. One group, Voice, an arm of Accelerated Christian Education (ACE), based in Lewisville TX, gave its format: "Each hour begins with five minutes of network news, with the rest of the hour being beautiful Christian music, along with brief scripture readings or character sketches and an occasional one-to-three minute segment concerning family life, the church or the school." There will also be opportunity for local announcements and donor acknowledgements as well as a local preaching ministry. The other outfit, American Heritage, is based in El Cajon CA. An equipment package has been figured out, costing a broadcaster about \$32,000, exclusive of local studio. Satellite programming fee would be \$300/month. Any of our readers wanna start an FM station?

Error in December column spotted by Peter Nolan: KDEA 99.1 is in New Iberia (not New Roads) LA. "KHC 105.7 Houston has already had terrible coverage for their listed antenna height; the new 100' HAAT shouldn't change too much what they already have (or don't have). You list Sauk City WI 96.7 as WSEY; I have WVLR. Did I miss a change? [Yes, b.e.] Under formats KKWS Wadena MN is listed as 105.1. Did I miss something or is this a typo? [It's listed elsewhere in the column as 105.9 so suspect the latter.]" [Correct; it's on 105.9. Co-owned KLT 105.1 Breckenridge Moorhead is the one I confused that with.] "Under call letters, I have both AM and FM in Brigham City UT as KFRZ, not KFKZ."

This would affect tuning-in to ABC on SCA: John D. Small II says: "ABC, back on Nov. 12, shifted programming around for all their networks. Apparently, their young adult networks want more news-oriented programming and the net has complied. Feeds are also occurring near the top of the hour with three nets served on one satellite channel and the other 3 on still another satellite channel. . . They still must be adjusting to their new equipment because I've noticed their network feeds to WAJK frequently drop out causing our automation to cut away into music. Spots may be fed simultaneously over other spots. Tones that ordinarily coke at the end of a feed may come just seconds after the feed drops out. Most, if not all ABC's nets feed affiliates 24 hours a day, seven days a week. [Or skip I had an ABC newscast on WOOF-FM 99.7 Dothan AL, but the network never identified which it was; it was not ABC Information, so I wonder if my six categories of ABC networking are accurate.] I look for WRKX in Ottawa IL to change their calls; there are rumors to that effect. We at WLFO/WAUK La Salle IL are awaiting a Mexican/U. S. agreement allowing our AM to stay on longer. We would shift weekend sports broadcasts from FM to AM. Docket 80-90 certainly has opened the door to competition. There is a possibility of stations opening in several nearby towns."

In FCC news, the Commission denied the request of Moody Bible Institute to extend the use of FM translators, to 1) permit them to receive programming from terrestrial microwave or satellite receivers; 2) permit local origination of FM programming; 3) allow all translators to operate at 10 watts; 4) use TV auxiliary microwave frequencies for FM translator relay purposes. The FCC had originally turned Moody down on these requests, but then Moody amended the request just for the educational channels, 88.1-91.9. "Since it had previously explored each of the changes proposed by Moody in its petition for partial reconsideration, the FCC concluded that because new facts were not presented, reconsideration was not justified." (FCC news release Nov. 23 '84)

KMFE Emmett ID dumped its Hispanic programming when the station was sold, so a group headed by Roman Reyna is trying for an educational FM permit in the Boise area. The KMFE show was on 60 hours a week, from 6 pm to midnight weekdays and 18 hours on Sunday. KMFE is now "KXW," KXUO 101.7.

The FCC has a working agreement with Canada, replacing a 1947 treaty. I wrote the Commission for a copy, but it has not come. However, I did receive a complete copy of the "Changes in the Rules Relating to Noncommercial, Educational FM Broadcast Stations" in regard to TV channel six. I studied the 24-pp. document one night and feel that I thoroughly understand it. In brief, it does not appear to be the complete sell-out to channel 6 TV interests I feared it would be. Nevertheless, many stations, such as those I pointed out last month, could not exist, or if they could, they would be very low powered indeed. Already groups like the NAB are opposing the new rules, and may force the FCC into court over the issue. I have not heard of any murmurings of opposition from public broadcasting groups. If I have time next month I will try to digest the rules for you, giving specific examples of powers and heights certain public FM stations could go to under the new rules.

Another release from the FCC: "Troublesome Broadcast Violations." See if you can identify any of these problems with stations you've heard, worked at, or visited: Lack of frequency tolerance of 2000 Hz for FM stations; failure to do weekly EBS tests; operation at times not authorized in the station license; directional antenna system tolerance; antenna tower painting and lighting, including inspecting the lighting system every 24 hours.

Contributors this month: Frank Aden, Jr., Boise ID; Robt. Baker, Humboldt IA; Phil Boersma, Spring Lake MI; Eugene E. Cooper, Lompoc CA; Thomas V. Cornell, Greentown IN; Joan R. Drezhlo, Troy NY; Mike Dorner, Jr., Metairie LA (for data sent in August); John Ebeling, Bloomington MN; Wendell Ford, Westville IN; Karl Forth, Chicago IL; Paul L. Gaines, Detroit MI (who's hoping to DX more in '85 from his van); Al Germond, Columbia MO; Robert Grant, Detroit MI; John M. Jefferson, Akron NY; Peter Nolan, Galveston TX; Rod O'Connor, Kodiak AK; Jim Pizzi, Lovington NM; Richard A. Porter, Wood Dale IL; Richard Reese, Jersey Shore PA; William L. Scully, Hudson OH; John D. Small II, Utica IL; Peter Thing, WHOM, Mount Washington NH; Larry Weil, Acton MA; Roger Winsor, Champaign IL; Dr. Richard Wood, Hilo HI; C. E. Zalewski, Johnson City NY. And I did get to Denver, skiing Keystone Dec. 24, and took note of some of the format changes in the area on that trip. Also: Don Wilkerson, Redwood City CA.

I won't always promise long columns like this month and last month. It seems longer columns generate more reader response, which is fine, but it makes my work more 73 *Bane*.

# EASTERN TV-DX

February 1985

William J. Draeb  
Ellis St. R.R. #2  
Keweenaw WI  
54216

Deadline: 1st

John F. Combs, 2831 Selma, Jacksonville FL EST (904)-389-2188  
Dec. 1984 Dec. 1984 Dec. 1984  
2 Es 1922 XEFP-2 NL 1220\* 4 Tr 0825 WGXA-24 GA 201 9 Tr 0833 WEVU-26 FL 77  
Monterrey Macon  
2022 KFDK-3 TX 1016 8 Tr 2310 W29AB-29 FL 77 13 Es 2340 Unids on 2&3  
Wichita Falls Ocala(WTOG-44) 2352 CBC ch.2  
2157 KMID-2 TX 1221 9 Tr 0105 WJHG-7 FL 221 14 Tr 0936 WEBA-14 SC 200  
Midland-Odessa Panama City WAGE-26 GA(SC)215  
4 Tr 0713 WLTZ-38 GA 240 0112 WPMI-15 AL 355 WCES-20 GA t  
Columbus Mobile 0958 WGIC-43 AL 242  
0723 WTVM-9 GA 229 0250 WTWV-4 AL(FL) 244 Louisville  
Columbus 0827 W27AE-27 FL 198 \*= approximate distance  
0753 WCOV-20 AL t Sebring(WTOG-44) t= tentative loggings

Totals at a whopping 49 stations! Don't think I'll ever see as much here as I did in Orlando. Then again, I didn't move here for the DX!

Fred Nordquist, 7945 Boxford Road, Clay NY 13041 EST

Good tropo conditions were noted on 10/7, 10/13, 10/18, 10/28, 10/29, 10/31, and super conditions on 12/11 and 12/12. UHF antenna is now up to 40' ASL after adding new mast section. The new WFTDA xliter list is very helpful during the tropo sessions!

Oct. 1984	Nov. 1984	Dec. 1984
7 Tr 0040 CBLFT-55 ON Barrie	27 Tr 1745 WUSV-45 NY 116 11 Tr 2000 WLKY-32 KY 606 Albany	11 Tr 2000 WLKY-32 KY 606 Louisville
13 Tr 0000 Detroit U's 0018 WKON-20 MI 355 Detroit	GW 1800 Unid-68 NY Syracuse Video Graphics with WAXX-95.3 audio.	2029 W-BAA-48 WV 295 Keyser(WNFB-24)
18 Tr 2110-2221 E. MI U's 2221 WIHT-31 MI 385	Is this legal?	2248 WMPB-67 MD 267 2317 W51AE-51 MA 157
Ann Arbor	1902-2320 Tr PA, CT, MD, DC, KY, WV, MA	1902-2320 Tr PA, CT, MD, DC, KY, WV, MA
28 Tr 2225 WUHQ-41 MI 465 9 Es 2115 Unid-2, SW	Dec. 1984 12 Tr 0003-0035 New England	0004 WGBF-57 MA 200
29 Tr 2348 WGTE-30 OH 385 11 Tr 1902 WFAT-19 PA 241 13 Es 2332 Unids-2; no I-D.	Johnstown	14 Gone to party; missed Es?
31 Tr 2302 WTIC-61 CT 210 Hartford	1858 WMPB-31 MD 255 (There was here thru ch6 Hagerstown wd)	15 Tr 1608 WIHT-31, WGTE-30

Equipment: UHF 4 bay bowtie at 40' AGL w/rotor. VHF Stereo Probe 9 at 35' AGL w/rotor. Receiver - Panasonic CT-11108. Preamp; Winegard AC-4990.

Roy Barstow, P.O. Box 488-T, Teaticket MA 02536 EST

Nov. 1984	Dec. 1984
26 Tr 1900 WBOC-16 MD 340 27 Tr WCPB-28 MD 340@1845	11 Tr 2330 WERZ-46 NY 275
WCPB-28 MD "	1845 WAPB-22 MD 360 WICZ-40 NY "
2100 WHRO-15 VA 440	1900 WBOC-16 MD 340 WDAU-22 PA 270
WTVZ-33 VA "	1910 WLVT-39 PA 260 0000 WCNY-24 NY 300
WMDT-47 MD 340	2000 WHYY-12 DE 290 WXXA-23 NY 180
2230 WVEC-13 VA 440	2050 WITF-33 PA 325 12 Tr 0010 WENY-36 NY 320
27 Tr 0030 WERB-28 PA 270	WPMI-43 PA 340 0050 WPMI-43 PA 340
WDAU-22 PA "	2100 WTVB-51 PA 285 0100 WETM-18 NY 320
0110 WVIA-44 PA "	WFMZ-69 PA 260 0108 WUHF-31 NY 370
0115 W41AC VA 380	2340 WVN-22 VT 240 0115 WLWY-15 PA 320
0130 W44AD VA "	28 Tr 0030 WERB-28 PA 270 0130 WLVI-39 PA 260
1800 W59AT NY 170	WVIA-44 PA " 2300 WNEP-16 PA 270
W63AS NY "	WBRE-28 PA "
WRBV-65 NJ 270 11 Tr 0025 WLHZ-2 ME 240	2330 WBFF-45 MD 350
WTKK-66 VA 410	2200 WNNE-31 VT 170 WNUV-54 MD "
1830 WWSG-57 PA 260	WLTK-33 VT 240 13 Tr 0010 WITF-33 PA 325
WNUV-54 MD 350	WVIA-41 VT 160 0030 WVIR-29 VA 480
WMDT-47 MD 340	WVIA-44 PA 270 0045 WHP-21 PA 340
1845 WBFF-45 MD 350	2230 WNEP-16 PA " WDAU-22 PA 270
W35AB PA 260	WBRE-28 PA " Es 2230 WEAR-3 FL 1200
WHMM-32 DC 380	2300 WUSV-45 NY 190 2300 WREL-3 GA 1000
WETA-26 DC "	WITF-33 PA 325

Eastern TV-DX

Barstow; continued--- February 1985  
Here on Cape Cod we have not had any real cold weather. In fact, the whole East has been warm, while other parts of the country have had their snow storms. (Amen-wd)

This has made DXing interesting even though not as spectacular as early autumn conditions.

On the 27th of November, was a good case in point. Over 75 UHF stations in this evening and although nothing new was seen, it was nice to see the channels filled-up.

Then on Dec. 12, conditions toward western New York were good and netted my best catch in that state. So you can see it pays to check out the conditions and flip the dials around at least twice a day.

And, next to that, to report your DX, even if you may not consider it real DX. I for one like to read reports from my area and it's interesting to find you may be picking up certain stations and the fellow 50 miles down the road is receiving something else. We can find much information from others' reports. Even if they only report their locals. If they give s/on and s/off times and new stations coming on in their area would be a help for all. Some openings do not last long and knowing what may be on or off the air can save us much time. So help each other and report what you pick up. The editors are waiting with restless fingers to type your report up. By the way, they do a great job. HAT'S OFF!(Thanks for the compliment Roy. I don't know about about restless fingers but I wouldn't mind having some new reporters send in something; especially at this time of year. Otherwise, I concur with your comments 100% -wd)

It looked as though there wasn't going to be a column this month. The last day of the month rolled around and I didn't have any reports but the mailman delivered all the reports in this month's column on the last day. I suppose with Christmas and New Years activities, not to mention the tax forms that come in the mail about now, most DXers were pre-occupied with other problems. Hope everyone survives the New Year.-wd.

**15N**

WICD-TV Plains Television Corporation

**3**  
wcia  
MIDWEST TELEVISION INC

510 South Neil Street, Champaign, Illinois 61820

**31**  
**ALIVE**

WMBD-TV 3131 North University St., Peoria, IL 61604

# ANARC UPDATE

STEVEN P. SPRACHMAN  
39-16 48 Street  
Sunnyside N.Y. 11104

## TELEVISION IN COLOMBIA AND ECUADOR

Last month I talked about radio in these two South American countries. On this trip, we were lucky enough to have television sets in 3 of the 5 hotel rooms we stayed in. In Bogota and Cali, there were color sets and in Medellin, the room had a small black and white set. In Quito and Cartagena the hotels had television sets in the lobby. We got a chance to watch a lot of TV in Columbia. I did catch a few glimpses of television in Ecuador.

Television in both countries greatly differs. In Colombia, there are three government run networks. In Ecuador, there are 4 private stations and 1 government channel.

Colombia's television system is called Inrevision. The first and second channels are called Cadena 1 and 2. They are both commercial channels. Cadena 3 is the educational channel and is only broadcast in Bogota. On Cadena 1 and 2, about 50% of the programming is locally produced. This consisted of news, game shows, soap operas, and music shows. News is aired several times a day, at 12 noon, about 7pm and 9pm. The news was fairly extensive. It included domestic stories from all over Colombia, the latest business news including the latest Peso to US Dollar exchange rate, sports, countrywide weather, and many international stories. When we were there, they spent a large portion of their news covering the Republican National Convention in Dallas. The correspondant interviewed several Spanish speaking delegates. It was interesting to see how another country's television covers a US event.

A large portion of the broadcast day was devoted to educational programs. Educational programs are shown on Cadena 1 and 2 during the mornings and afternoons. During these times, Cadena 2 and 3 show the same programs. If after a program there isn't another program scheduled, they would show a test pattern. Midday on Cadena 1 & 2 are a soap opera, a newscast, and another soap opera. During the late afternoon, there are entertainment programs for older children. The evening entertainment schedule starts about 7pm with a newscast. This would be followed by a dubbed American action program, game shows and musical programs. Another newscast would be broadcast between 9 and 10pm. Then there would be the late evening soap opera, an American Sit-com, and a movie. If a program ended, another would start, whether it was on the half hour, the hour or sometimes in-between. Some of the programs would start at 43 minutes after the hour.

## Tv para hoy

1 TELEVISION EDUCATIVA	
12:00	1 TELENOVELA BRASILEÑA "Dancin' days". Julia visita la clínica de medicina que su hermana, Yolanda, trajo de localizar por medio de la telefónica.
12:00	2 TELENOVELA VENEZOLANA "Soñar azul".
1 MONITOR - De la salud "La fiebre". La fiebre es una defensa del organismo. Por eso, en casos de enfermedades que tienen más su asistencia que su prevención. Considerar la fiebre por medios naturales.	
12:30	2 ALMUERCE CON GLORIA Noticias Uno - Noticiero Director: Alfonso Castellanos
12:30	3 TELEPROGRAMA - Noticiero Director: Arturo Abella
MATINES	
12:30	1 CASABRAVA - Telenovela Librettos: Luis Ernesto Eraso
12:30	2 ESTUDIOS - Televisión Caso aparentemente los problemas de la televisión y la radio, Dora Carranza y su hermano toman una brata determinante.
12:30	3 TELEVISION EDUCATIVA EXPEDICIÓN AL REINO ANIMAL - La reserva arqueológica del Geroraro, al norte de Tazacá. Encuentro de animales en esta selva.
12:30	4 DEPORTE DIDACTICO
12:30	5 ALFABETIZACION Tipos de producción. Concepto de decimal.
12:30	6 ED. BÁSICA CURSO I Bolívar: madre de héroes, regreso de Europa.
12:30	7 ED. BÁSICA CURSO II
12:30	8 ED. BÁSICA CURSO IV
12:30	9 ED. BÁSICA CURSO V Interacción entre contenidos. Principios básicos de la comunicación tecnológica.
12:30	10 PLAZA BESAMO - Infantil CARRUJES INTERNACIONAL La vida cotidiana de los habitantes de Chocóvalvaca.
12:30	11 PLAZA BESAMO - Infantil CACHIVACHES Y FANTASIAS
12:30	12 CAMINA HACIA EL DEPORTE PEQUEÑOS BAILARINES
12:30	13 JOSEMIEL - Dibujos animados PERRISCOPE INFANTE "Los grandes y los pequeños". Historia infantil.
NOCHES	
9:30	1 NOTICIERO HOY Director: Andrés Pastrana
9:30	2 NOTICIERO NACIONAL Director: Jairo Alzate y Gómez Ortiz
10:00	1 EL PARABON - Televisión El gran desfile de La Rumba. Diosa Orla. La Rumba en la noche. Los habitantes del pueblo desfilan a Telefóno para que acuda correr. Diana regresa a casa.
10:00	2 LA RUMBA Pedro Mirón solicita permiso a la dirección para presentar al frente del proceso contra Serrano y su esposa. Orla Mirón. Rumba en la noche. Orla y Carmen celebran en la bodega el comienzo de una gran amistad.
10:30	1 NOSTALGIA - Entrevistas ENVIADO ESPECIAL - Periodístico
11:00	2 ENCUENTRO CHE - Aventuras ENCUENTRO DE MÚSICA NOCHE HISTORIA DE LA MÚSICA EN COLOMBIA

Program schedule for Cadena 1,2,&3

Program schedule from Bogota, Colombia

## TELEVISION

LUNES 27 DE AGOSTO

CANAL 7 (1a. CADENA)	CANAL 9 (2a. CADENA)	CANAL 11
7:00 TV educativa	Telenovela "Sangre azul"	
11:30 Telenovela "Dancin' Days"		
12:00 Monitor. (La fiebre)	Almuercos con Gloria	
12:30 Noticias Uno. Director Alfonso Castellanos	Noticiero Telediario. Director Arturo Abella	
1:00 Telenovela "Casabrava"	Telenovela "Estudio 5"	
1:30 TV educativa	Programación del canal 11	Reino animal
2:00		Deporte
2:30		Educación básica
4:30 Camina en la salud	Plaza Sésamo	Carrusel
5:00 Pequeños gigantes	Cachivaches y fantasias	Deportes
5:30 Pequeños bailarines	Josemiel	Periscopio infantil
6:00 Porque usted lo preguntó	El Club del Clan	Variedades
6:30 Los diez mejores de la música	Joven es	La ciencia
7:00 Noticiero 24 horas. Director Mauricio Gómez	Noticiero de las Siete. Director Juan Guillermo Ríos	Educación Básica
7:29 El Minuto de Dios		
7:30 Cámara de Representantes	Colecciones Icfas	
7:35	Compre la Orquesta. Anima Pacheco. Invitados minuávidos	
8:00 Comedia Chepito		
8:30 Conciéntese. Presenta Julio E. Sánchez	Testigo Ocular. Teatro	
9:30 Noticiero TV Hoy. Director Andrés Pastrana	Noticiero Nacional	Expedición andina
10:00 Telenovela "El Faraón"	Telenovela "La Red"	Noches de gala
10:30 Nostalgia	Envío Especial. Cort. Germán Castro Caycedo	
11:00 Película Fuerza Che	Encuentro de media noche	CIERRE
11:30	Historia de la música colombiana	
12:00 CIERRE	CIERRE	

Popular American shows seen on Colombian television were Solid Gold, Mission Impossible, Happy Days, Falcon Crest and M\*A\*S\*H\*.

Weekend programming consists in Colombia of cartoons and sports. While we were there the government signed and agreement with the Contra guerrillas. There were several programs on this including interviews with the guerrillas.

Many products are advertised on television. Ads for foods, beverages, toiletries, real estate companies, and everything else needed to live comfortable in a middle class Colombian household. And from these ads, a strong message comes across. It is the whites (who make-up about 20% of the population) that are the middle and upper class and by buying the product, you can live like them. Few of the other ethnic groups appeared in the commercials. If a mestizo or an Indian appeared in a commercial, then it had to be a government public service announcement.

Colombian television stations only identified the network they were affiliated with. No identification of the individual station were seen at any time, including at the station sign-off.

In Ecuador, programming was not much different from that shown in Colom-

Guayaquil, Ecuador TV schedule

## PROGRAMAS DE TV



14h30 "Leonela"	15h30 "Amo y Señor"
16h30 3-2-1 Contacto	17h00 La Abeja Maya
18h00 El Chavo	19h00 Los Inmigrantes
18h30 Amalia Battista	19h30 La Plataforma
20h00 Televisato	20h30 Cámara Deportiva
20h30 Dia a Dia con María Rosa	21h00 Hawái 5-0
21h30 Estreno nuevo programa de Ecuador "Nosotras" con conductora Jenny Estrada	22h00 Fundación Prince
13h00 Televisato	23h30 Telemedio Cine Club: Asesinato en la calle con Andy Grissett y Bradford Dillman
13h30 Show de Bernard	00h57 Cierre



19h00 Hombre Nuclear. presenta: "El Interno de Danny"	20h00 Las Aventuras de B.J. presenta: "El Magnate"
17h00 Los Tres Chiflados	21h00 Telenovela Rosa de Lejos
17h30 Fantasmas del Espacio	22h00 Informativo Minuto a Minuto
18h00 Mazzinger	18h55 Micro Informativo
18h30 Charles Dickens	



17h30 Cine familiar — El asesinato que no se olvidó	19h00 Sucedido este día
19h00 Aeróbicos	20h00 Informativo 24 horas
20h00 Deportes Total	21h00 Deporte de Cebolla
21h00 Barbero de Cebolla	22h00 Carnaval del Cine
15h00 Telejardín	— El policía que ríe
17h00 Larry	00h00 Último Informe



18h00 Telenovela "Amada"	19h00 X.E.TU
19h30 Noticias en directo Guayaquil-Quito	20h00 Telenovela "Yolanda Luján" estreno
20h00 Telenovela "Yo eres mi destino"	21h00 Telenovela "La Flora"
20h30 Telenovela "Yolanda Luján"	21h30 Telecina: "Tuya en septiembre" con Gina Lollobrigida
23h00 Nuevas noches	23h00 Nuevas noches



15h30 Los Super Amigos	16h30 Rosa de la Calle
17h30 El Tesoro del saber	17h30 El Tesoro del saber
18h00 Daniel Boone	18h00 Daniel Boone
19h00 Intimidades	19h00 Intimidades
19h25 Noti 10	20h00 Eternamente tuya
20h00 Club 700	21h00 Acción
12h30 Jimmy Swaggart	22h00 Retrato en vivo de Braulio
13h00 El Maletín	23h00 Noti 10
13h30 Sintonizando	23h30 Carrousel Musical

# WESTERN TV-DX

Fred McCormack  
Box 5221  
State University Sta.  
Fargo, ND 58105

Deadline: 3-8-85

bia. Most of the programs were dubbed American programs (like Star Trek), old movies, and soccer games. One promo was very interesting. It was for a program called " NBC's Sportsworld".

Some of the programs of Colombia and other Latin American countries regularly appear on American Television. If you can receive a SIN network station or translator, you may see a beauty pageant from Colombia, or a music program from Mexico.

Travel to South America is very interesting and delightful. Some words of advice, for those planning to visit our Latin neighbors. If you do not speak and understand Spanish, take a tour. And if you get sick, go home. You'll avoid a long stay in the hospital.

I would like to hear from anyone else who has been to Central and South America. Please tell me of where you went and what you saw. And tell me about the radio and television in the countries you were in.

That's it for this month. I'll have plenty of ANARC news for you next time. From me and my travelling partner, my wife Joyce,

73's

Steven P Sprachman  
and Joyce

Worldwide TV-FM DX Association

## C.C.J. [UNIDENTIFIED DX]

Robert Grant, KD8EN  
5775 Bishop  
Detroit, MI 48224.  
February, 1985.

### TV unIDs:

Michael Parks, Route 1, Box 103, Amery, WI 54001.  
1984: Sat 16 Jun Es ch 2 0155 CDT-- Movie with logo "SUMMER CINEMA" (PTA: W)  
Tue 19 Jun Es ch 2 1400 CDT-- ID w/ promo "Love Boat" 1800 wkds., ABC, W?? call.  
" " Es ch 4 1404 CDT-- first episode of "The Brady Bunch" (Mike & Carol's marriage)  
Fri 22 Jun Tr ch 24 1702 CDT-- STV. (PTA: MN, SD, IA.) (Any LPTV's, Maybe WCGV?? -RG)  
" " " ch 22 1736 CDT-- Different from WCCO-4, Minneapolis, MN. then at 1800  
announce go into WCCO news, then on xltng WCCO.  
(a xltw with a local studio. -RG)  
" " " ch 34 1753 CDT-- SPN. (PTA: IA, MN, SD.)  
Sat 23 Jun Es ch 2 0129 CDT-- end "Twilight Zone" episode "I Sing The Body Electric"  
had a 27 in LR corner. (Definitely CFAC, Calgary, Alberta.  
ch 7 is their CATV channel, I'll never forget how long it  
took me to find out who this 27 was after KHON said "no"  
after I saw it back in '82. -RG)

Thu 12 Jul Tr ch 22 2230 CDT-- SPN (PTA: S.)  
Mon 6 Aug Es ch 2 1545 CDT-- "Smurfs" then "Charlie's Angels" episode "The Prince  
and The Angel" at 1600.

Sat 25 Aug Tr ch 43 0039 CDT-- INN News. Mention what sounded like "TV-23"  
but could have been "TV-43" (PTA: SSW)  
" " Tr ch 25 0130 CDT-- start "Twilight Zone" (60 min. episode) (PTA: SSW)  
Tue 28 Aug Tr ch 43 2230 CDT-- start "Thicke Of The Night", ad- "Bloomington Ltd."  
phone # 828-5911. (There's a 43 in Bloomington, IL. -RG)

Mike, I want to apologize for forgetting about this report which should have been  
in the January column, by the time I found it again, the deadline had passed. I'll  
just have to take better care of the letters I get when I get them, sorry, -RG.

The 1984-85 Winter Es season was surprisingly like the '84 summer season,  
a great drumroll, and then, silence! Good openings in October and November, But  
not a trace of Es in December or January. The only good news for DXers may be  
that it can't get any worse. (this goes for the whole RF spectrum, these days.)

73.

February 1985

This month we have a rather healthy size column. There are reports of good tropo, an active December E skip season, and a good number of meteor scatter observations by some dedicated early risers.

We also welcome a new reporter and the return of an old regular after a number of years absence. Welcome Danny and welcome back Pat!

New New Mode Tent. - t Unidentified - unid S/On - + S/Off - =  
ID Color Bars - @ Unid Color Bars - % IHTP - \$ Misc. Test Patterns - &

William Draeb, Ellis St., Rt. #2, Kewaunee, WI 54216

CST

Equipment: 7' Finco dish, B-T QMA-Ub preamp @ 93', .750 cable. Stacked Finco high band yagis with B-T AB-3 (tube type) preamp @ 100' with RG/11 cable. Second tower, 40', with Winegard CH-4026 (lo-band) and Winegard SC713 (hi-band) yagis. Hi-band uses AB-300 preamp. Zenith 14N22 table model 23" b&w (1971) with B-T BTU-2s UHF converter (used for UHF and also the stacked hi-band yagis) and Zenith 16J20 19" b&w (early 60's) (used with antennas on 40' tower), and Panasonic 9" b&w portable.

October 1984	13 tr 0630	WTWQ	36 KY	473	24 tr 1902	WXIX	19 OH	400	
29 tr 0615	KNLC 24 MO	432	0643	WAFF 48 AL	685	WCET	48 OH	400	
	KDNL 30 MO	432		WCET 48 OH	400	WKYTV	27 KY		
0815	WUSI 16 IL	405	0649	WHRN 21 NC	508	WGRB	34 KY	508	
1830	WCET 48 OH	400		WGRB 34 KY	508	WKSQ	29 KY	538	
	WKON 52 KY	437	0653	WKCFT 43 TN		2229	WCFT	22 OH	
1911	WTTE 28 OH	395		@WSBN 47 VA	587	2340	KBSI 23 MO	512	
	WOSU 34 OH	395		WSBN 47 VA	587	2345	KDNL 30 MO	432	
1935	WNEO 45 OH	406	0740	KDNL 30 MO	432	25 tr 0815	WKBN 27 OH	420	
	WPTT 22 PA	480	0750	WQLN 54 PA	405	0829	WUTV 29 NY	445	
2014	WTWQ 36 KY	473		WCVN 54 KY	407	CFMT	17 ON	410	
	WKEQ 46 KY	473		WSEE 35 PA	405	CBFLT	25 ON	410	
	WSFJ 51 OH	395		WJET 24 PA	405	WNEDT	17 NY		
2234	WGGN 52 OH	321	0755	WCTE 22 TN	589	0945	WSEE 35 PA	405	
	(Snow free)			WVUIT 22 IN		WQLN 54 PA	405		
	WPGH 53 PA	480	0800	WKLW 46 KY	473	1010	unid ch 36 east		
2314	WPCB 40 PA	480	0815	WTCI 45 TN	671		(WSBE?)		
	W64AF 64 OH		0824	WDSI 61 TN	671	1014	WMGC 34 NY	600	
	(Conneaut WVIZ-25)			WBTI 64 OH	400	WICZ 40 NY	600		
	W66## 66 MI		0827	W66AQ 66 OH		WENYT 36 NY			
	(Detroit SIN)			WTTE 28 OH	395	1104	WTVQ 36 KY	473	
	W67## 67 MI			WOSU 34 OH	395	1110	WGRB 34 KY	508	
	(Ann Arbor WLNS- 6)			WKON 52 KY	437	1440	WCET 48 OH	400	
				WBKZ 63 IN	238	1501	WKON 52 KY	437	
				(Rare)		1501	WSBN 47 VA	587	
				WSBN 47 VA	587	WOSU 34 OH	395		
November 1984	7 tr 0715	KDNL 30 MO	432	1949	WTWQ	36 KY	473	1535	
		KDNL 24 MO	432	1956	WKLW	46 KY	473	WTTE 28 OH	395
10 Es 1818	WBRZt 2 LA			WKLW 46 KY	473	1600	CITY 30 ON	410	
	KATC 3 LA	1030		WPBC 42 OH	462	1622	WGGN 52 OH	321	
	KJACT 4 TX			WCET 48 OH	400	1806	CKGN22 22 ON	413	
12 tr 2105	WDRB 41 KY	437	2110	WXIX 19 OH	400	1907	CICA 19 ON	410	
	WKPC 15 KY	437		WGRB 34 KY	508	1940	WNPE 16 NY	600	
	WXLX 19 OH	400		WCTE 22 TN	589				
	WCET 22 IN	589	2127	WKSQ 29 KY	538	December 1984			
	WTWQ 36 KY	473	2145	WDRB 41 KY	437	9 tr 0630	WLKY 32 KY	437	
	WGRB 34 KY	508		WKPC 15 KY	437		WDRB 41 KY	437	
	WKEQ 46 KY	473	2150	WFIE 14 IN	420		WTTE 28 OH	395	
	WCET 48 OH	400		WEHT 25 IN			WOSU 34 OH	395	
	WCAV 30 TN	585	2153	WKHA 35 KY	551				
	WAFF 48 AL	685	2218	WEVV 44 IN	420	Es 2003	KPRC 2 TX	1118	
2205	WKSQ 29 KY	538	2331	=WKCFT 43 TN			KJAC 4 TX	1080	
2230	WKAH 35 KY	551		(u/WKOI 2331:30)			unid channel 3		
13 tr 0630	WKSQ 29 KY	538		21 Es 1822	unids ch 2 + + s	11 tr 0615	WAFF 48 AL	685	
	WDRB 41 KY	437		WTWQ 36 KY	473		WAAY 31 AL	685	
	WKCFT 43 TN			WKLW 46 KY	473		WCET 48 OH	400	
							WKPC 15 KY	437	

## William Draeb (continued)

11 tr 0627	WOSU	34 OH	395	11 tr 0749	WLKY	32 KY	437	14 Es 1615	WBRZ	2 LA	1002
				0814	WEVV	44 IN	420		WWL	4 LA	1028
	WPBO	42 OH	461		WUSI	16 IL	402		KTXTT	5 TX	
0638	WFIE	14 IN	420		(WXGZ back on at 0829)				WDSUT	6 LA	
	WLQNT	19 KY		1230	WGRB	still in,			KTALT	6 LA	
0642	WGRB	34 KY	508			but not much else.			KDFW	4 TX	957
	WDRB	41 KY	437	1230	WMSO	14 WI	60	1800	WMB	2 MS	784
0646	WCAY	30 TN	585		(Usually not on				KRIS	6 TX	1285
	WEHT	25 KY	420		til 1645 wdys)				KIII	3 TX	1285
	(WLRE-26 off)			1800	WGRB	34 KY	508		KMOL	4 TX	1213
0657	EWKMA	35 KY	499		WTWQ	36 KY	473		KJAC	4 TX	1080
0705	WTHT	27 IL	476					1830	KACB	3 TX	1143
	WKBW	27 OH	420	1807	WKHA	35 KY	551		(KRBC / KACB ID)		
0709	WKMU	21 KY	553		WSBN	47 VA	587	1845	KIDTY	6 TX	
	(WLRE back on at 0715)							18 Es 1205	WCBD	2 SC	916
0728	WBNG	42 AL	768						WESHT	2 FL	
	("Take Five" interview)			1915	Rain ends tropo.					unid channel 3	
	WTOT	21 AL		14 Es 1100 (approx)	Chs 2, 3			1227	WCIVT	4 SC	
				(No time to view)							

I was going to watch for some meteor scatter during the Geminids shower, and I did, a little, until a hot tropo opening on the the 11th and some E skip through channel 6 on the 14th altered my plans somewhat. I never did identify any meteor scatter, but there was lots of other DX.

Well, maybe I'll be able to snag a few meteor scatter catches during the Quadrantids shower the first week in January. Not much DX since the 18th.

I received an interesting letter from CMU (Central Michigan University). It was in response to some questions I had about their new channel 21 in Manistee and channel 27 in Cadillac. It explains where each station gets its signal from. W69AV gets their signal from W46AD in Traverse City. WCMU-6 gets its signal from WCMU-14 via five microwave hops. WCMU-27 gets its signal from WCMU-21, and WCMU-21 gets its signal from WCMU-14. I thought when channel 21 came on that they would be a lot stronger than they are, but at this time of year, their signal doesn't amount to much, even though they are only sixty miles away. It must be their short (340') antenna that causes them to be so weak. When comparing them to WSOO-14 (also sixty miles away), there's no comparison. WSOO is much stronger, and I get a viewable picture from them all the time with an indoor antenna (corner reflector). Needless to say, WCMU-21 is just barely viewable with my dish. However, there are some days when they are real good, but those are mostly during warmer weather conditions.

##(Bill, your call for channel 64 at Conneaut, Ohio (10/84 # 2314) differs from that shown in the WFTA Translator-Low Power TV List. The List shows W64AK. Also shown in the List are calls for channel 66, Detroit (K66BV) and channel 67, Ann Arbor (W67AJ); call letters which you listed as unknown. Do you have information that contradicts these three call letter designations? fm)##\*

Nathaniel Ely, 1237 East Johnson St., #2, Madison, WI 53703 (608)-257-5220 CST

Equipment: Quantum 1110, C.M. 7' dish with 4990 preamp at 61', 70'/30' runs of .412/RG-11 cable, H-D 73 rotor. Winegard DA-405 post amplifier (when locals off the air), Channel Master 7206 "Hi Q" trap (UHF). Tower, QDMX MD-56 (free standing). Zenith System III.

## December 1984

11 tr 0723	WSFJ	51 OH	420	17 tr 0706	Cleveland U's	400	30 tr 0534	WTTE	28 OH	405
0758	WCAY	30 TN	500	21 tr 0000	Cleveland U's	400	1808	WSFJ	51 OH	420
0836	Cleveland U's	400		0006	CKC03	42 ON	1942	Cleveland U's	400	
0930	WJKS	29 KY	480	0010	CI001	59 ON	1948	WEAO	49 OH	415
0854	WGRB	34 KY	460			(Sure would like	2025	WNEO	45 OH	445
0956	WGRB	53 KY	435			an ID on this.)	2034	WTWV	33 OH	460
1500	WEVV	44 IN	375	0030	WFMJ	21 OH	2041	WAKR	23 OH	415
14 Es 1830	KRGV	5 TX	1280	0034	WKBNT	27 OH	2041	WAKR	23 OH	415
1830	WDIQ	2 AL	820	0050	WAKR	23 OH	2041	WOAC	67 OH	420
	WRALT	5 NC		0100	WSEE	35 PA	2129	WOUSS	34 OH	405

Here's all the DX that's fit to print. Not exactly a landslide of stations, but more than I expected. I did a crummy job of watching for E skip, and the only opening that I observed was because Frank Merril called me about it. Thanks Frank, I would have missed it. My goal for 1984 was to break 400 stations ID'd by New Years, and I made it. I was beginning to think it would be impossible when the summer tropo was so bad. That's it for this report. 73's, Nate

Don Ruland, 4448 68th Place, Kenosha, WI 53142

CLT?

August 1984	11 tr 2130	WBLN	43 IL	160	November 1984				
28 tr 2100	KYIN	24 IA	270	2200	WFHL	23 IL	200		
29 tr 0530	WHAS	11 KY	330			3 tr 2145	WCEE	13 IL	300
	WLKY	32 KY	330			13 tr 0600	WRGT	45 OH	280
0535	KTTC	10 MN	270				0600		

October 1984	4 gw 2200	WGVK	52 MI	120	October 1984		
9 tr 2210	WCMW	21 MI	140	6 tr 0545	WKBK	27 OH	380
2230	WCMW	27 MI	170		WYTV	33 OH	380
11 tr 2100	W51AF	51 IL	120		WJET	24 PA	400
(LaSalle					WSEE	35 PA	400
					WPCH	53 PA	430

Jim Pizzi, P.O. Box 1778, Lovington, NM 88260 (505)-396-3251

MST

Equipment: Tri-Ex MW-65' Tower - @ 65', 10 element Antennacraft (hor) into Akai AT-VO4 and JVC VT700 with Jerrold FM de-snow; @ 68', Finco P-7 UHF dish with Eu-4s preamp into Sony 8" b/w or Motorola 19" color; @ 72', Winegard CH-7023 (10 elements, chs 7-13) with Winegard AC-9730 preamp into Motorola 19" color. 35 Foot Tower - @ 35', Winegard CH-4054 with Winegard A-215 in house tube amp into Motorola 19" color; @ 38', CM 4250 6' UHF with Eu-4s preamp into 12" Emerson b/w. 20', 10 element channel 2 with Winegard AC-9260 preamp (channels 2-6); 35', CM-1110 with Winegard AC-9990 preamp on 20' push up on garage roof; Channel 2 and FM vertical on 20' push up; Winegard CH-4054 on 10' mast; 25', 10 element Antennacraft FM (vert) into JVC VT900; 13', Winegard CH-4052 with Winegard AC-9260 preamp (chs 2-6).

December 1984	12 Es 1401	XHPAH	3 HD 0kHz	14 Es 1500	WDTN	2 OH	1152
		(Acapulco, Hidalgo with		1530	WESH	2 FL	1346
2 Es 1835	unids 2-6 Mexico	local program and ID)		1559	WFMY	2 NC	1350
	and Florida			1600	WYFF	4 SC	1206
2018	XEHL	6 JA 840		1610	WBTV	3 NC	1206
2200	XEWNO	2 JA 840	(Veracruz area?, Yuc?,	1612	WSAZ	3 WV	1238
		with + kHz offset. )	1626	WJBK	2 MI	1260	
		(Es gone by 2221)	1630	WEWSt	5 OH	ABC	
3 Es 0931	unids ch 2-4 ne	XEW net, ID at 1601.)					
0959	WSJK	2 TN 1170	1516	unid ch 5 Mexico			
1018	WSB	2 GA 1098	1521	unid ch 3 XEW			
1200	WDIQ	2 AL 1008	1734	unids 2-6 Mexico			
7 Es 1659	WDIQ	2 AL 1008		(MUF to 107.5)			
1700	WEAR	3 FL 950	1728	XHRPM	2 TU 1272		
	WTWV	4 AL 1067	1758	X---	6 ?? TRM		
1758		unid ch 2 Mexico	1800	XJD	4 TA 792		
8 tr 0915	K53BE	53 OK 273	1807	XHAJ	5 VR 996		
(Guymon		(TBN)	1808	XHGV	4 VR 996		
		(Has ID in upper right	2158	unid ch 2 ne NBC			
		corner all the time.)	2202	unid ch 2 ne			
0922	K16AB	16 OK 273	2204	WJBK	2 MI CBS		
		(W/microwave break-up	2232	CKCY	2 ON 1345		
		and drop out.)	2236	WBAYT	2 WI		
0923-0929	Memphis	38, 40, 42; Estelline	2301	KGFET	2 ND PBS		
		44; Childress 46,			(MUF to 103.1)		
		48, 50; Clarendon	1325	KDKA	2 PA 1373		
		47, 49, and 51.	1501	unid ch 2 east			
9 Es 1934	WJBK	2 MI 1260	1029	WJXT	4 FL 1300		
		WKZOT	1100	WSB	2 GA 1098		
		3 MI -kHz			1523	WSAV	3 GA
		WDIV	1340	WSB	2 GA 1098		
		4 MI 0kHz	1419	WSJK	2 TN PBS		
		WNEM	1430	unids chs 3, 4 e			
		5 MI -kHz			1724	unid ch 2 XEW	
		(Es gone by 1958)			1740	unid ch 3 Mexico	
12 Es 1345	unid 2, 3 Mexico		1433	WNGE	2 TN 968	25 Es 1902	XEW 2 DF

I've noticed that some Mexican TV calls are related to the initials of the cities and/or states that they are in, i.e. XCH-2, Chihuahua; XHP-2, Acapulco; XHBC-3, Mexicali, BC; XHPN-3, Piedras Negras; XHP-3, Puebla; XHCV-3, Coatzacoalcos, Veracruz; XHY-3, Merida, Yucatan; XHG-4, Guadalajara; XEJ-5, Juarez; XHCC-5, Colima, Colima; and XHZ-5, Zamorano. XHPAH (on 12/12) had PSA's for tourism in Hidalgo and the call slide had

## Jim Pizzi (continued)

calls in large letters inside what looked like a tire (?) with Hidalgo written on the bottom sidewall. The QTH is an educated guess - XHPAH - Acotapan, Hidalgo and may be affiliated with XHP in Puebla?? XHIIH-5 QTH is also an educated guess, although FM was in strong from Veracruz state, so XHIIH may be in that area.

Just a thought - if any club members, relatives, or friends are going to take a trip to Mexico, maybe they could pick up a Mexican equivalent of TV Guide or TV listings (also FM) from a newspaper and pass it on to club headquarters to be compiled, or I'll even do it as I have some friends who understand the language. We all really need to update our Mexican FM and TV information as Mexico is really putting a lot of new stations on the air!

Well, it was quite nice to have all that E skip to watch in December. It makes up for the lack-luster summer E skip. On December 2, 12, 13, 14, and 18 - I spent a lot of time on the FM, but still managed a few new TV's. I saw quite a bit of meteor scatter this month too, but no ID's. Tropes have been down this report period even though the weather has been mild. It should pick up soon. I hope that everyone has the best new year ever! 73's, Jim

\*\*\*(I agree with you that we need a good up to date Mexican TV and FM list. Developing one is no simple task. I wonder how valuable TV listings from Mexico are? Do they list channels, call letters, and locations, or just network programs? Are any Mexican experts working on station lists? fm)\*\*\*

Danny Buntin, 1312 North Skyline, Stillwater, OK 74705

CST

Equipment: Quasar 1984 25 inch, 4 way bowtie with Radio Shack amplifier.

<u>December 1984</u>	8 tr 1025 <u>KCBJ</u> 17 MO 320	8 tr 1200 <u>KLDH</u> 49 KS 220
	1100 <u>KEKR</u> 62 MO 250	1430 <u>KYFC</u> 50 MO 250
8 tr 1020 <u>KDNL</u> 30 MO 405	WMBD 31 IL 515	1830 <u>K30AL</u> 30 KS 160
1025 <u>KSPR</u> 33 MO 220	1126 <u>WAND</u> 17 IL 515	(Iola-Moran KTWU-11)
WICS 20 IL 480	1140 <u>WTVP</u> 47 IL 515	2100 <u>KYNE</u> 26 NE 370

This is my first TV DX report, and it represents my best results with TV tropo. While I prefer DX'ing FM, it can sometimes be refreshing to get away from the congestion on that band and see what's happening on UHF. About all TV DX'ing is done on UHF since VHF is too congested here, especially when it comes to E skip on low VHF.

\*\*\*Welcome to the column and thanks for your comment. I hope we'll be hearing regularly from you. fm)\*\*\*

William Eckberg, RR#4, Dixon, IL 61201

(Log at 442 with 10 new)

CST

Equipment: Zenith b&w tube receiver, CM 1110 VHF antenna, CM 7' UHF parabolic with Winegard PA4975 preamplifier on a 30' tower.

<u>December 1984</u>	11 tr 0525 <u>WTZV</u> 17 TN 408	14 Es 1858 <u>WDIQ</u> 2 AL 727
	0630 <u>WCAY</u> 30 TN 408	21 ms 0510 <u>KPRC</u> 2 TX 890
1 ms 0540 <u>KJRH</u> 2 OK 519	0810 <u>WKSO</u> 29 KY 405	0545 <u>KJRH</u> 2 OK 519
0612 <u>KPRC</u> 2 TX 890	1325 <u>WAFF</u> 48 AL 503	27 tr 0655 <u>WHRM</u> 20 WI 223
3 ms 0513 <u>KPRC</u> 2 TX 890	1530 <u>WGRB</u> 34 KY 366	0730 <u>WLEF</u> 36 WI 289
4 ms 0501 <u>KSAF</u> 2 NM 972	1700 <u>WTCE</u> 22 TN 434	28 tr 0505 <u>WSIL</u> 3 IL 276
0515 <u>KPRC</u> 2 TX 890	14 ms 0508 <u>KPRC</u> 2 TX 890	ms 0548 <u>KSAF</u> 2 NM 972
6 ms 0530 <u>KPRC</u> 2 TX 890	Es 1800 <u>WMAB</u> 2 MS 583	29 ms 0440 <u>KSAF</u> 2 NM 972
0548 <u>KMID</u> 2 TX 967	1805 <u>KIII</u> 3 TX 1072	0535 <u>KOUS</u> 4 MT 925
0552 <u>KSAF</u> 2 NM 972	1807 <u>KMID</u> 2 TX 967	30 ms 0445 <u>KDFW</u> 4 TX 738
8 tr 0150 <u>KSNF</u> 16 MO 413	1808 <u>WNL</u> 4 LA 813	0521 <u>KOUS</u> 4 MT 925

The tropo opening of December 11 peaked in the afternoon. It was out by 1800. WCAY-30 at 408 miles was snowfree for hours. It showed the characteristics of a duct as a limited number of stations were observed. Other tropo conditions were normal.

The E skip opening of December 14 was from 1650-1930 in duration. It was very intense and through channel six from 1800-1830. I observed shortest skip of year at 583 miles and a large number of unidentifieds.

Of interest to meteor scatter DX'ers - WSIL-3 recently put their call and that of their satellite, KPOB, on their ID slide in large letters - for how long?? I looked at their color bars for six months and couldn't ID them previously. WSIL-3 runs their ID slide all night. It's always there when I look. KSAF-2 and KOUS-4 appear to run their ID slides for at least an hour and they are easy to ID.

\*\*\*Thanks for the meteor scatter test pattern tips. Now to get up early! fm)\*\*\*

Pat Dyer, 5315 Silvertip Drive, San Antonio, TX 78228 (WA5IYX)

Equipment: 1980 model Penncrest 9" black and white, Archer V-100 and eight bay bow tie UHF array at 20 feet with rotor.

<u>September 1984</u>	21 Es 1627 <u>YSR</u> 2 1200	23 Es 1859 <u>WCBD</u> 2 SC 1120
5 Es 0915-1030 unids	1705-1920 unids 2-5 Sp	<u>WSAV</u> 3 GA 1050
0915 <u>WSJKT</u> 2 TN	1802 <u>YSU</u> t 4	1945 fade/outs
1027 <u>WEDUT</u> 3 FL	23 ms 0549 <u>KQTV</u> 2 MO 750	
<u>WESH</u> 2 FL 1055		
<u>6 Es 1100 KCBSt 2 CA</u>	<u>October 1984</u>	<u>November 1984</u>
1110 <u>KEYTT</u> 3 CA	7 Es 0828-0934 unids 2 Mex	8 Es 2005 unids ch 2 west
1117 <u>KNBCT</u> 4 CA	0838 + <u>YSR</u> 2 1200	(MUF 88.9-2055)
1225 fade/outs	1755 <u>WPBT</u> 2 FL 1150	2059 <u>KUTV</u> 2 UT 1080
1557 unids ch 2 s/se	1815 unid ch 2,3 brf	2130 fade/outs
1604 <u>TGV</u> t 3	1930 <u>WTWJt</u> 4 FL	tr 2205 <u>XEFB</u> 2 NL 275
(MUF 98.6-1619)	2007 fade/outs un 2-4	2211 <u>KOSA</u> 7 TX 275
1728 <u>YSR</u> 2 1200	2043 unid 2 Spanish	2220 <u>KMID</u> 2 TX 275
1732 <u>YSU</u> t 4	8 Es 1710-35 unid 2 Spanish	9 tr 0029 <u>KCDB</u> 11 TX 340
1820 fade/outs	1820-1900 unids 2-4 nw	0048 <u>KLBK</u> 13 TX 340
2000 unids 2 s(brief)	(Lightning nw)	0049 <u>KAMC</u> 28 TX 340
2000 unids ch 2(brief)	1840 <u>KWGNt</u> 2 CO	10 Es 1658 tune/in unid 2 ne
1810-15 unid 2 Spanish	11 Es 0902 tune/in	1705 <u>KGAN</u> 2 IA 945
1920-2125 unids 2-5 ne	<u>KQTVt</u> 2 MO	1729 <u>WBTV</u> 3 NC 1105
(Busy with ARRL VHF Contest)	0929 <u>KUSD</u> 2 SD 920	1758 <u>KUTV</u> 2 UT 1080
	0944 <u>KDLOT</u> 3 SD	(MUF 95.1-1902)
1935 <u>WCOT</u> 4 MN	0955 fade/outs	1913 fade/outs
1936 <u>KTCat</u> 2 MN	1025-1110 unids 2, 3	1956-2113 unids chs 2,
2200 unids ch 2 east	1034 <u>KGANT</u> 2 IA	3, ne and nw
9 Es 1405-1540 unids 2-5 ne	1100 <u>KIMT</u> 3 IA 985	11 Es 1122 tune/in unids 2-4
(MUF 88.5-1413)	16 Es 0950 unids chs 2, 3	(MUF 89.3-1146)
1759-2117 unids 2-4	1029 <u>KIMT</u> 3 IA 985	1157 <u>KNDX</u> 2 ND 1225
1844 <u>WJXTt</u> 4 FL	1112 <u>KGAN</u> 2 IA 945	(MUF 92.3-1242)
1845 <u>WEDUT</u> 3 FL	1128 <u>KUSD</u> 2 SD 920	1250 fade/outs
1901 <u>WPBTt</u> 2 FL	1159 <u>KTCA</u> 2 MN 1110	2220 tune/in unids 2 n
2031 <u>KNBCT</u> 4 CA	1201 <u>WCCOT</u> 4 MN	2319 <u>KNOP</u> 2 NE 815
2038 <u>KCBSt</u> 2 CA	1204 <u>KOTA</u> 3 SD 1040	2329 <u>KPRYT</u> 4 SD
2117 <u>WCBDt</u> 2 SC	1222 fade/outs	KOTA 3 SD 1040
10 Es 1955 tune/in unids 2-4	1600 unids chs 2, 3	(MUF 89.3-2334)
<u>KNBCT</u> 4 CA	1627 <u>KNBCT</u> 4 CA	12 Es 0000-0010 unids ch 2
2004 <u>KCBSt</u> 2 CA	1635 <u>KEYT</u> 3 CA 1270	0958 tune/in unids
<u>KTVKt</u> 3 AZ	1658 fade/outs	0959 <u>KTWO</u> 2 WY 1015
2050 <u>XHBCT</u> 3 BCN	1810 unids ch 2	1015 fade/outs
2100 fade/outs	1816 <u>KCBS</u> 2 CA 1190	1148 unids chs 2-4
11 Es 0915-0945 unid 2,3 Mex	1825 <u>WTWJt</u> 4 FL	1200 <u>KTVKt</u> 4 UT
13 tr 0003 <u>KPLC</u> 7 LA 325	1833 <u>WESH</u> 2 FL 1055	(MUF 98.7-1205)
0820 <u>KLTLT</u> 18 LA	1838 <u>KVBCt</u> 3 NV	1258 <u>KUTV</u> 2 UT 1080
0830 <u>KOSA</u> 7 TX 275	1844 <u>KTWO</u> 2 WY 1015	1320 fade/outs
0859 <u>KIDY</u> 6 TX 175	1857 unid ch 3 SD	20 Es 1729-1958 unids 2-5 Sp
(Audio from FM)	1859 <u>KWGN</u> 2 CO 810	1831 <u>XEW0</u> 2 JA 690
Es 1820 unids ch 2 south	2100 fade/outs	21 Es 1955 <u>KVBCt</u> 3 NV
14 Es 1312-1920 unids 2-5 Sp	2004 <u>KUTVt</u> 2 UT	2040 <u>KUTVt</u> 2 UT
1511 <u>TGV</u> 3 1120	2102 fade/outs	212 Es 1040 unid ch 3 brief
1601 <u>YSU</u> t 4	1040 unid channel 3	1823 unids ch 2 ne
1607 <u>YSR</u> 2 1200	1058 <u>WUND</u> 2 NC 1360	1840 <u>WSAZ</u> 3 WV 1100
(MUF 94.9-1615)	1110 lull	(MUF 89.5-1843)
15 Es 0750 tune/in	1135-1213 unids ch 2	1859 <u>WFMY</u> 2 NC 1175
unids chs 2,3 Sp	2105-1045 unids 2-4 ne	1935-55 lull
(MUF 88.8)	22 Es 1758 tune/in	2059 fade/outs
0858 fade/outs	unid 2-5 Spanish	23 Es 1521 tune/in
1455-1628 unids 2,4 Sp	(MUF 88.9-1942)	unids 2-4 west
1959 <u>XEW0</u> 2 JA 690	1959 <u>WFMY</u> 2 NC 1175	<u>KNBCT</u> 4 CA
2005 f/outs	2025 <u>WCBDt</u> 2 SC	1536 <u>KCBS</u> 2 CA 1190
17 Es 1125 unids 2,3(brief)	2059 fade/outs	1549 <u>KTVKt</u> 3 AZ
19 Es 1605 <u>WCBD</u> 2 SC 1120	23 Es 1703 unids ch 2 ne	(MUF 105.9-1550)
1642 <u>WESHt</u> 2 FL	1712 <u>WSJKt</u> 2 TN	1604 <u>XHBCT</u> 3 BCN
1650 unid ch 3(brief)	1730 <u>WFMYt</u> 2 NC	1614 <u>XHAQt</u> 5 BCN
1805 unid ch 2(brief)	1733 <u>WSAVt</u> 3 GA	1658 <u>KUTV</u> 2 UT 1080
1940 unid ch 2(brief)	1800 <u>WCIVt</u> 4 SC	(MUF 88.9-1701)
21 Es 1518-1630 unids 2 Span	(MUF 89.3-1829)	1847 unid ch 2 GRO

Pat Dyer (continued)

23 Es 1914 KVBC 3 NV 1050  
1936 fade/outs

24 Es 1550 tune/in unids 2-4  
YSR t 2  
(MUF 88.8-1614)  
TGV t 3  
1715 fade/outs  
1800 XEWO 2 JA 690  
1840 fade/outs

25 Es 1025 tune/in unids 2  
tr 1028 XHX 10 NL 275  
Es 1045 unids chs 2-5  
1114 YSU t 4  
1310 fade/outs  
1517 unids ch 2 se  
1545 YSR t 2  
1646 YSU t 4  
1755 fade/outs  
1845-1900 unids ch 2-3  
2010-2040 unids ch 2-4  
2059 WPBT 2 FL 1150  
WTVJt 4 FL  
WEDU 3 FL 985  
(MUF 89.7-2105)  
2136 WESHT 2 FL  
2250 fade/outs

28 Es 1918 WESH 2 FL 1055  
1940 WEDU 3 FL  
2010 WPBT 2 FL  
2030 fade/outs

30 Es 2127 unids chs 2-5 nw  
KVVU 5 NV  
(MUF 95.5-2140)  
2159 KNAZ 2 AZ 855  
KVBC 3 NV 1050  
2211 fade/outs

December 1984

1 Es 1037 unids chs 2, 3  
(MUF 94.1-1053)  
1057 XETV 6 BON1100  
1120 fade/outs

2 Es 1130 unids chs 2, 3  
ms 1159 WMAB 2 MS 615  
Es 1159 WSJK 2 TN 1010  
1210 fade/outs

Es 1745 tune/in  
YSR t 2  
1755 Cube t 3  
(FM open - 1809)  
(MUF to VOR's-2022)  
2147 WTVJt 4 AL  
2158 WDIQ 2 AL 730  
2219 WCBW 2 SC 1120  
2303 WESHT 2 FL

3 Es 0925 tune/in  
WDTN 2 OH 1075  
(MUF 89.1-0927)  
0933 WCIA 3 IL 935  
0959 WTWO 2 IN 935  
1000 WSIL 3 IL 810  
1008 WEBM 2 IL 1045  
1013 WTVJt 4 IN  
1158 KGAN 2 IA 945

3 Es 1215-1240 spotty  
1245 KUSD 2 SD 920  
1509-1530 unid ch 2 s  
4 Es 2158-2225 unids ch 2  
2200 KDKA 2 PA 1280  
6 Es 1800-1825 unid ch 2 s  
2010-2017 unid ch 2 ne  
7 Es 1028-1045 unids 2, 3 ne  
1257-1316 unids ch 2  
1302 KDKA 2 PA 1280  
1430-37 unids ch 2 ne  
1650-1720 unids 2, 3 Sp  
1724 Cuba 2  
1727 YSU 2 1200  
1728 YSU t 4  
TGV t 3  
1942 fade/outs  
unids ch 2 ne  
2040-2051 unids ch 2, 3  
2044 KCBS 2 CA 1190  
8 tr 0523 KPLC 7 LA 325  
0524 KLFY 10 LA 395  
0536 WAFB 9 LA 450  
ms 0556 WTVF 5 IN 820  
Es 0925-1020 unids 2 ne  
1335-1350 unids ch 2  
1701 YSU 2 1200  
1702 YSU t 4  
1800 WPBT 2 FL 1150  
1840 fade/outs  
1959 unids ch 2 west  
2014 KCBS 2 CA 1190  
KNBCT 4 CA  
2035 XHAQt 5 BON  
2045 XETV 6 BON1100  
(MUF 101.5-2049)  
2057 XHBC 3 BON1010  
2126 fade/outs  
9 ms 0931 KCBS 2 CA 1190  
Es 1432-1840 unids ch 2, 3  
Spanish - south

11 Es 0945 tune/in  
WPTBt 2 FL  
0955 WESHT 2 FL  
1335-1550 unids 2 Span  
1338 YSU 2 1200

12 Es 1454-1515 unids ch 2, 3  
TGV t 3  
1516 YSR t 2  
1550 XHAQt 5 BON  
KVOAt 4 AZ  
(MUF 97.7-1615)  
1631 KUAT 6 AZ  
1659 KTVK 3 AZ 835  
(MUF 100.1-1828)  
1910 fade/outs  
13 ms 0449 KSNC 2 KS 615  
0553 KQTV 2 MO 750  
0556 KSAF 2 NM 600  
0557 KGAN 2 IA 945  
0559 KNOP 2 NE 815  
Es 1218 KCBSt 2 CA  
1700-1705 unid ch 2 se  
1750-1825 unid 2-6s/se  
(MUF 94.9-1842)

13 Es 1856 XHP 3 PU 735  
2005 fade/outs  
14 Es 1028-15 unids chs 2, 3  
1047 WCCOT 4 MN  
1058 KTCA 2 MN 1110  
1059 WSAZ 3 WV 1100  
KUSD 2 SD 920  
1100 KDLH 3 MN 1250  
1107 WRALT 5 NC  
1110 WFMY 2 NC 1175  
1115 WBTV 3 NC 1105  
1158 WWAY 3 NC 1250  
1159 WTWO 2 IN 935  
1229 WSJK 2 TN 1010  
1317 WSM t 4 TN  
1331 WKRN 2 TN 820  
1344 WDIQ 2 AL 730  
1358 WTVJt 4 AL 795  
1432 fade/outs  
1612 unids channel 2  
1625 WFMY 2 NC 1175  
1632 WWAY 3 NC 1250  
1636 WKYK 3 OH 1250  
1638 WDIVt 4 MI  
1648 WJBK 2 MI 1225  
1652 WBTV 3 NC 1105  
1659 WSJK 2 TN 1010  
1700 WSM t 4 TN  
(MUF to VOR's-1749)  
Es? 1746-48 ?? 7 CBS?  
(0 kHz to KTBC)  
Es (MUF 94.9-1945)  
1956 WCCOT 4 MN  
1957 KTCA 2 MN 1110  
2030 KNOP 2 NE 815  
(MUF 94.1-2118)  
2231 KNAZ 2 AZ 855  
2250 fade/outs  
18 Es 1112 tune/in unids 2  
1128 WDTN 2 OH 1075  
WEWst 5 OH  
1129 WCMAt 4 OH  
WKYC 3 OH 1250  
(MUF 99.9-1155)  
1230 WJBK 2 MI 1225  
1232 WGRZ 2 NY 1420  
1250 fade/outs  
1332-40 unids ch 2  
1510 unids channel 2  
1610-1630 unids ch 2, 3  
1628 WDTN 2 OH 1075  
1641 KDKA 2 PA  
1715-1820 unids ch 2, 3  
1820 KNAZt 2 AZ  
2025-30 unids ch 2 s  
20 tr 2220 KLDO 27 TX 145  
21 ms 1429 KQTV 2 MO 750  
24 Es 1120-1130 unids 2, 3 ne  
26 Es 1103 unid ch 2 Span  
1110 YSU t 4  
1117 YSR 2 1200  
(MUF 89.0-1121)  
1128 TGV t 3  
1220 fade/outs  
27 Es 1220-1230 WESH t 2 FL

A rather healthy December level of E skip considering how the summer season slumped after mid July.

The December 14 E skip event may have reached channel 7, but the suddenness with

Pat Dyer (continued)

which the CCI went away reminded me of what sometimes occurs when both the main and auxiliary transmitters are running before the auxiliary is shut down.

Well, hopefully I'll be able to keep these reports coming a little more regularly now than I was able to in the 1981-1984 period.

\*\*\*Good to have you back, Pat! We'll be looking forward to regular summaries of south Texas TV DX conditions. fm\*\*\*

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58103

CST

Equipment: VHF: Broadmoor 9" black & white, Winegard CH-7078; UHF: Magnavox 19" color, Winegard CH-9095, Blonder-Tongue CMA-Uc pre-amp; Alliance rotor.

December 1984

27 tr 0005 KHIN 36 IA 390	0100 KTIN 21 IA 305	0102 KGIN 27 IA 300	0102 KCBR 17 IA 385	0825 KTIN 21 IA 305	KYIN 24 IA 310	KGIN 32 IA 395	0855 unid ch 17 ABC	0900 KCBR 17 IA 385	0921 WTV 18 WI 505	0928 WMTV 15 WI 445	0959 WLEF 36 WI 315
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Nothing too spectacular, but a nice relief from the usual winter DX fare here. I did manage to miss the traditional December E skip.



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4411 Amnicola Highway  
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Mike Griffin



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1051 EAST MAIN STREET  
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WPGB TELEVISION  
BROADCASTING GROUP: MEREDITH CORPORATION  
2401 NATION AVENUE PITTSBURGH PENNSYLVANIA 15214

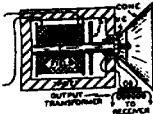


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Grace Communications Corporation  
CHANNEL  
43  
P.O. BOX 1411  
BLOOMINGTON, IL 61701



ENGINEERING DEPT.  
WUAB 43  
LORAIN-CLEVELAND  
8443 DAY DRIVE  
PARMA, OHIO 44129



## Technical Topix

### PART 1. Subsidiary Communications Authorization (SCA)

With over 1000 FM stations having been granted SCA in the U.S. "48", it seemed to me that my DX tuner would be incomplete without some means of listening in. In experimenting with the LM565 I.C. to decode SCA broadcasts, I put together some notes which will be shared in two parts. Part two comes next month...

The 565 is sold by Radio Shack (276-1720, \$2) and enables one to use PLL (phase lock loop) technology and skip some rather nasty circuit design--some of which I've tried in college and do not like. A PLL is a circuit which locks onto a signal and tracks. The PHASE of the output signal and the phase of a reference signal are compared, and the difference, if any, is used to correct the output so as to track the reference. This gives the PLL system the obvious advantage of seeking or tracking a signal.

Upon eyeballing the linear databook for the 565, I found the basic circuit to make the chip work as an SCA decoder, and have reprinted it here as Fig. 1. The .001 cap on pin 7, along with an internal resistor, form a filter that determines the capture characteristics of the PLL. The frequency of the reference signal, generated by an oscillator on the chip, is adjusted by a voltage on pin 8. A 5K pot gives a tuning range of 44 to 167 kHz, which covers all three SCA "channels." If the circuit is powered by 9V, the PLL will "lock on" to a subcarrier if tuned within about 60 Hz--thus the adjustment of the pot is not very critical. Remember the PLL will seek the signal.

The resistive voltage divider on pins 2 & 3 bias the input transistors on the chip. The two 510pF caps, and their resistances to ground form a two-stage, high-pass filter which remove the normal FM program and the stereo pilot at 19kHz. A signal amplitude of 80-300 mV is needed here from the tuner. The 3 resistors and 3 caps on the output form a low-pass filter to provide de-emphasis (a fancy term for noise and treble attenuation). About 50mV of signal is available at the output, and audio frequency response is good out to about 7kHz. By the way, the maximum power for the chip is 26W.

This circuit was built and checked out, and works well for strong, local stations. On my tuner, I needed about 200mV of signal to get good, clean SCA. For my purposes this was nearly exciting, but would work well for portable radios, perhaps, if one was only interested in hearing the SCA of a particular local station, i.e. Talking Books. Note also that the 50mV output is a little low for the line-level (i.e. "aux" or "tape in") inputs of many hi-fi amplifiers.

The cost of parts for the circuit of Fig. 1 ought to be less than \$5, and perfboard construction is fine--just be neat and keep all leads and wires short. And be alarmed that kits consisting of this circuit have been seen by this writer for as much as \$20! Oh! and the 510pF caps can be replaced with 470pF units. The three caps in the low-pass output network of course adjust audio tone effect, so values can be toyed around with without losing the SCA or anything else drastic.

The circuit draws only about 10mA, and is very well powered by a 9-V battery. Of course, DC can be drawn from the radio or tuner.

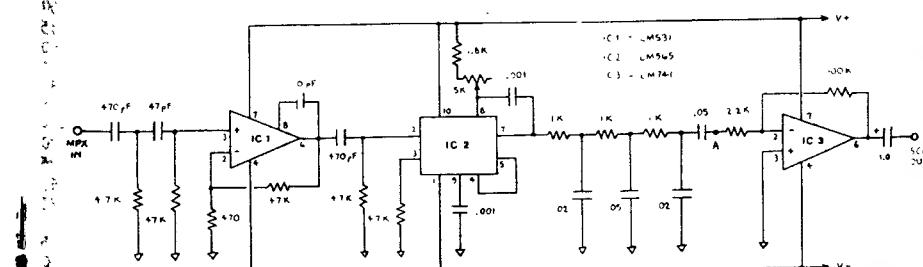
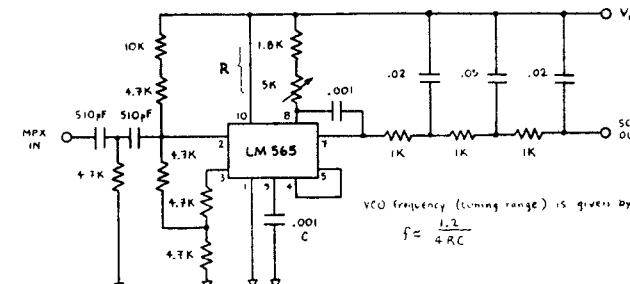
For better performance, the circuit needs an amp stage at the 565 input so that weaker signals can be decoded. That simple addition is shown in Fig. 2. This preamp circuit appeared in the mag Electronics Hobbyist, Spring '79, as an article by Hero Friedman, "Super SCA Soother." The 531 is a high-performance, high-slew rate op amp which is somewhat expensive (\$5) but probably worth it. The 531T is in a shielded TO-5 can, and the cheaper 531V is in an 8-pin DIP. Either

chip works well, as I've built three of these receivers. The avid experimenter could no doubt come up with a cheaper or better amp stage, but 741's do not do well here. The stage frequency response is that of a low pass filter with gain. The 10pF cap is for compensation. The 741 stage added to the output of the decoder boosts the 50mV audio up to the 500mV line level normally expected by audio amps. Also, one can effect tone control here, if desired. If the SCA is too "screamy" for your taste, a disc capacitor can be soldered from point "A" to ground to cut treble response. Alternatively, a small cap can be soldered across the 2.2K resistor for treble boost. The whole circuit was found to draw about 20mA...which brings up the issue of power.

Because current requirements are low, two 9-V batteries can be used. Power can certainly be drawn from the tuner, IF it has both voltages available (bipolar). Chances are if the tuner has I.C.'s, there will be a bipolar power supply. I mounted the smallest JT transformer I could find and a small rectifier (Radio Shack #276-1161) directly on the P.C. board. If the decoder is powered by anything other than 9V batteries be sure to solder a 0.1 disc cap and a 100uF can as close as possible to the 531--between each of the supply pins and ground. This bypass on each power line is necessary to keep AC hum out of the audio.

Yes, it works! I have the version of Fig. 2 installed in a Pioneer F-5 tuner with a switch on the front panel to click it in via a relay. The decoder provides a clean SCA output for signals around the quieting limit of my tuner (about 50uV). DX is certainly SCA'able with this circuit, if assembled neatly on a PC board. This probably will not work well on perfboard, although the Fig. 1 circuit will perform satisfactorily if hand-wired. Next month, I will share some details on how to find the SCA connection in a FM tuner, provide the printed circuit board layout for Fig. 2, and whatever else I can come up with.

Incidentally, the VE531 is made by Signetics, Inc., which probably has a sales rep in your area. By mail order, both chips are available from Jameco Electronics, 1355 Shoreway Road, Belmont, CA 94002.



tim mcvey

route 3 box 568, bolivar, TN 38008

# SOUTHERN FM DX

Danny Buntin  
1312 N. Skyline  
Stillwater, OK 74075

DEADLINE: 10th

February 1985

For FM DX reporters from: AL, AR, AZ, CA, CO, DC, DE, FL, GA, KS, KY, LA, MD, NC, NM, NV, OK, SC, TN, TX, UT, VA & WV.

DECEMBER HAS SOME GOOD SKIP DATES

Fat Dyer, 5315 Silvertip Dr., San Antonio, TX 78228 - Sept. 1 to Dec. 31, 1984 CST	
Equip: Realistic TM 1001 tuner into Allied 426, Archer 6-e. beam at 20' with rotor.	
9/6 Es	11/24 Es
1608 TG-- 88.8 GU Guatemala City, nx	1120 1614 TG--t 88.8 GU Guatemala City, Sp
1610 TG--t 88.1 GU Guatemala City, Sp	1120 TG--t 88.1 GU Guatemala City, Sp
1617 TG--t 94.9 GU Guatemala City Sp,	1120 11/25 Es
9/9 Es	2102 WRMbT 89.3 FL Boynton Beach, g
1413 WYSUT 88.5 OH Youngstown, c	1275 2105 WMCUT 89.7 FL Miami, g
9/14 Es	11/30 Es
1612 TG--t 88.1 GU Guatemala City, Sp	1120 2128 KNAU 88.7 AZ Flagstaff, c
1615 TG-- 94.9 GU Guatemala City, nx	2132 KUDO 93.3 NV Las Vegas, ID
1620 TG-- 88.8 GU Guatemala City, nx	2134 KCEP 88.1 NV Las Vegas, ID, r
9/15 Es	2140 KILAT 95.5 NV Henderson, g
0750 TG-- 88.1 GU Guatemala City, Sp	1120 12/1 Es
9/24 tr	1042 KXLJUT 89.9 CA Los Angeles
0200 KVNE 89.5 TX Tyler, town ment.	280 1049 KCHVt 92.7 CA Coachella
10/15 tr	1053 KFOX 93.5 CA Redondo Beach, ID
2250 KQXY 94.1 TX Beaumont, EL, ID	275 275 KFSD 94.1 CA San Diego, c
10/22 Es	1058 XHFOL 89.9 BGN Mexicali, wx
1942 WSHA 88.9 NC Raleigh, ID	1230 KEGR 93.3 CA El Cajon, ID, g
10/28 Es	1059 KPBS 89.5 CA San Diego, ID
1829 WSCIt 89.3 SC Charleston, j	1120 1103 KKYX 96.5 CA San Diego, ad
11/8 Es	11/2 Es
2055-2118 KBYUT 88.9 UT Provo, c	1045 1809 XHNPt 89.3 PUE Puebla, Sp
tr	1815 XHPS 93.3 VCZ Veracruz, twon ID
2109 XHDt 98.9 NL Monterrey, Sp, r	275 1823 WJJW 106.7 FL Ft. Lauderdale, Joy-107
2112 KQUL 103.7 TX Sinton, ID	115 1824 WKPX 88.5 FL Sunrise, ID
2113 KBAT 93.3 TX Midland, local ad	280 1825 XHRNt 96.5 BGN Veracruz, Sp
2133 KUFO 97.9 TX Odessa, ID	1828 WDNA 88.9 FL Miami, ID
2153 KNFM 92.3 TX Midland, ID	280 1829 WRMbT 89.3 FL Boynton Beach, ID
2159 KYOC 102.3 TX Yoakum, ID	90 1830 WMCU 89.7 FL Miami, ID
2214 KVRF 95.5 TX Haskell, ID	265 WFYF 92.5 FL Key West, ID
11/9 tr	1835 WINK 96.9 FL Fort Myers, ID
0010 KXTT 88.1 TX Lubbock, ID	340 1838 WCVU 94.5 FL Naples, town ID
0023 KFMX 94.5 TX Lubbock, ID	1841 WLVE 93.9 FL Miami Beach
0101 KRUX102.5 TX Lubbock, ID, K-192, k	340 1848 WEDR 99.1 FL Miami, ID
0120 KZBS 98.9 OK Oklahoma City, ID	1853 WZNE 97.9 FL Clearwater, ads
0138 KLUR 99.9 TX Wichita Falls, ad	1855 WVMF 94.1 FL Lakeland, area nx
0159 KVNE 39.5 TX Tyler, ID	1856 WRGI 93.5 FL Naples, area ID
11/10 Es	1900 WQCS 88.3 FL Fort Pierce, ID
1859 WKSU 89.7 OH Kent, ID	1901 WJNZ 94.9 FL Miami Beach, ID
WYSU 88.5 OH Youngstown, ID	1909 WHYI 100.7 FL Fort Lauderdale, r
1901 WKJQ 92.5 OH Alliance, m	1919 WEZI 105.1 FL Coral Gables, area wx
11/11 Es	1923 WPKA 92.3 FL Orlando K-92, k
1242-1247 unIDs to 92.3 north	1932 WMCG 95.7 FL Clearwater, area nx
2334 unID 89.3 brief	1940 WOVV 95.5 FL Fort Pierce, wx, ID
11/12 Es	1949 WFLLA 93.3 FL Tampa, wx
1200 KBYUT 88.9 UT Provo, c	2001 WCCS 97.9 SC Columbia, ID
1205 KLCY 94.1 UT Salt Lake City, ID, r	2008 WSSxt 95.1 SC Charleston, r
1209 KLTQ 92.3 UT Salt Lake City, ID	2011 WXTc 96.9 SC Charleston, local ad
1213 KVRE 92.3 CO Grand Junction, ID	1045 WQXI 94.9 GA Atlanta, town ment.
1219 KLRZ 94.9 UT Provo, wx	2016 WGLE 104.1 FL Tallahassee, Gulf-104
1220 KCIRt 90.7 ID Twin Falls, k	2018 WBYZ 94.5 GA Baxley, Town ID, Z-94
1225 KJQN 95.5 UT Ogden, ID, r	2022 unID VOR's
11/22 Es	2026 WPAP 92.5 FL Panama City, ID
1843 WFDDt 88.5 NC Winston-Salem, j	2027 WIXV 95.5 GA Savannah, wx, I-95
11/23 Es	2028 WWLT 106.7 GA Gainesville, area ad
1550 KPCt 89.3 CA Pasadena, EL	2030 WZOT 107.1 GA Rockmart, ID
1551 KMBT 94.7 CA Los Angeles, ID	2035 WBBQ 93.3 NC Forest City, ID
(6 others from Los Angeles t)	1080 cont....

## SOUTHERN FM DX

12/2 Es	12/13 ms
2044 WXRC 95.7 NC Hickory, local ads	1085 0502 WDEK 92.5 IL De Kalb, state nx
2053 WLWI 92.3 AL Montgomery, ID, I-92	750 Es
2059 WLFJ 89.3 SC Greenville, SC E. Net	1010 1823 XHNPt 89.3 PUE Puebla, Sp
WLFJ 89.3 AL Montgomery, g, ID	750 1831 XHZM 92.5 PUE Puebla, town ID
12/3 Es	1836 XHRM 93.3 PUE Puebla, ID
0925-0935 unIDs 89.1 (ne)	1841 XHJE 94.1 PUE Puebla, slogan ID
12/8 Es	1847 XHRF 88.1 DF Mexico City, Radio VIP 690
12/10 Es	Eng. nx
2038 KFSDT 94.1 CA San Diego, c	1120 1909 XHRJ 92.5 MEX Toluca, town ID
2039 XETRA 91.1 BGN Tijuana, ID	1100 soon f/outs
2040 XHRM 92.5 BGN Tijuana, area ads	1120 0600 WKLW 89.3 IL East Moline, town ID
2044 KPBS 89.5 CA San Diego, ID	1120 Es
2049 KGB 101.5 CA San Diego, ads, ID	1280 1706 WVTf 89.1 VA Roanoke, NPF
tr	1714 WPVR 94.9 VA Roanoke, ID
2051 KNFM 92.3 TX Midland, ID	1100 1717 WOAY 94.1 WV Oak Hill, town ID
Es	1722 WRVL 88.3 VA Lynchburg, ID
2058 KSDS 88.3 CA San Diego, ID	1100 1725 WYFL 92.5 NC Henderson, ID
2110 f/outs	1010 1729 WCG 97.1 WI Sparta, ID, area ads
12/12 Es	1731 KOEL 92.3 IA Oelwein, area ads
1550 XHFOL 89.9 BGN Mexicali, town ID	1100 1733 WPKP 106.7 MI Gaylord, wx, "KPK" ID
1600 KTTI 95.1 AZ Yuma, ID	1100 1739 WKLQ 94.5 MI Holland, "KLQ" ID
1603 KTTI 95.1 AZ Yuma, ID	660 1750 WLS 94.7 IL Chicago, local ad
1607 KTRAT 91.1 BGN Tijuana, r	750 1742 WAUR 107.9 IL Aurora, ID
1609 KFSD 94.1 CA San Diego, ads	1100 1743 WKHQ 105.9 MI Charlevoix, ads, KHQ
1613 KRRQ 93.7 AZ Tucson, ID	750 1749-1755 unID VOR's
1615 KZVV 97.7 AZ Benson, local ad	750 1755 WQLZ 105.1 MI Cheboygan, ID
1616 KJYK 94.9 AZ Tucson, ID	820 IRAC ? ? WI Racine
1621 KDKB 93.3 AZ Mesa, area ad	835 1804 WMGF 96.5 WI Milwaukee, r, ID
1625 KOOL 94.5 AZ Phoenix, ID	1811 WDWQ 93.9 WI Sturgeon Bay, wx
1643 f/outs	1825 WJZQ 95.1 WI Kenosha, ID
tr	1830 KTTs 94.7 MO Springfield, area nx
1659 KLGX 102.3 TX Uvalde, ID	615 1831 WMLW 94.1 WI Watertown, ad, Mellow-94
Es	1834 WZUW 95.7 WI Milwaukee, Z-94, ad
1750 XHMT 88.9 DF Mexico City, Sp	690 1838 WBKV 92.5 WI West Bend, town ID
1754 XHNPt 89.3 PUE Puebla, Sp	735 1844 WAUN 92.7 WI Keweenaw, area ad
(3 others from Puebla t)	1848 WNLt 94.9 WI Baraboo, area ad
1755 XHCT 95.7 MOR Cuernavaca, Sp	690 1850 KNTJ 97.7 IA Clinton, Y-98, town ID
1756 XERC 97.7 DF Mexico City	1859 KLCJ 88.5 MO Kansas City, wx, ID
("Radio Hits" ID)	1905 f/outs
1801 XHCM 88.5 MOR Cuernavaca, town ID	1945 KLRZt 94.9 UT Provo, bkb pre-game
1806 XHNU 94.5 GRO Acapulco, area ID,	very spotty 88.9 to 2158
"Radio Lobo"	12/18 Es
1819 XHNS 96.5 GRO Acapulco, local ad	1141 WCLVt 95.5 OH Cleveland, c
1822 XHFA 93.7 GRO Acapulco, ID	1142 WTTS 92.3 IN Bloomington, twon ID
1828 XHSE 100.1 GRO Acapulco, local ads	1149 WQRC 92.3 OH Cleveland Heights, ID
1830 XHJR 92.5 MEX Toluca, ID	1200 1150 WRAY 98.1 IN Princeton, area psa's
1846 XEBS 89.7 DF Mexico City, slogan ID	1152 WERT 98.9 OH Van Wert, EL, ID
1903 XHLZ 93.9 ? ? ID	1154 WTER 94.9 IL Mt. Carmel, ad
(Rather productive Mexico opening with	1155 WKLW 99.9 OH Toledo, ad, K-100
several multiple Sp stations on some	1200 WFMS 95.5 IN Indianapolis, state nx
channels.)	1203 WFBQt 94.7 IN Indianapolis, r
	1205 WNAP 93.1 IN Indianapolis, ID, r
	1210 f/outs
	12/16 Es
	1121 YSRt 89.0 El Sal. San Salvador, Sp
	1127 TGRT 88.8 GU Guatemala City, Sp.
	1129 TG-- 88.1 GU Guatemala City
	1132 XHCMt 88.5 Mor Cuernavaca, Sp.
	1143 f/outs

-Comparative Es FM total times chart begins next page.....

FEBRUARY 1985

Dyer, cont.

## Comparative Es FM total times

1982			1983			1984		
day	#	min	day	#	min	day	#	min
Jan 4	5	245	-	-	-	1	1	20
Feb 2	3	65	-	-	-	2	2	45
Mar 2	3	20	3	5	495	3	6	40
Apr 2	2	25	1	1	35	6	11	420
May 13	25	990	9	15	585	14	29	1035
Jun 22	46	2235	20	50	3430	19	43	2180
Jul 20	44	2555	22	51	3300	13	30	670
Aug 8	10	135	9	12	460	6	16	205
Sep -	-	-	3	3	25	4	4	30
Oct -	-	-	2	2	20	2	3	10
Nov 1	1	40	3	3	255	9	12	120
Dec 3	4	250	4	10	150	9	12	615
tot	77	143	6560	76	152	8755	88	169
						5390		

As can be seen, in spite of a very strong 1984 Apr and a good May the rest of the year was downhill until Dec. I don't think I've ever seen such a rapid fall in July.

Bob Timmerman, 2409 Woodway Dr., Orlando, FL 32821

12/2 Es	12/2 Es
1959 <b>XHAA</b> 93.1 TA Reynosa	2042 <b>KMUW</b> 89.1 KS Wichita
2000 <b>KITY</b> 92.9 TX San Antonio	2047 <b>KWLS</b> 93.1 KS Pratt
2027 <b>KREZ</b> 92.9 OK Tulsa	2050 <b>KFDI</b> 101.3 KS Wichita
2030 <b>KMEN</b> 95.5 OK Tulsa	12/14 Es
2038 <b>KNCK</b> 105.7 AR Siloam Springs	1855 <b>KZLE</b> 93.1 AR Batesville

I'll be moving to Auburn, IN sometime around late January or early February. If I don't get any more, DX these will be the totals for my log(started on 4/19/84; 130 different stations-1 MS, 6 tr(minimum distance 450 miles), 123 Es.

Jim Pizzi P. O. Box 1778, Lovington, NM (505)396-3251 - 88260 12-1 to 12-16

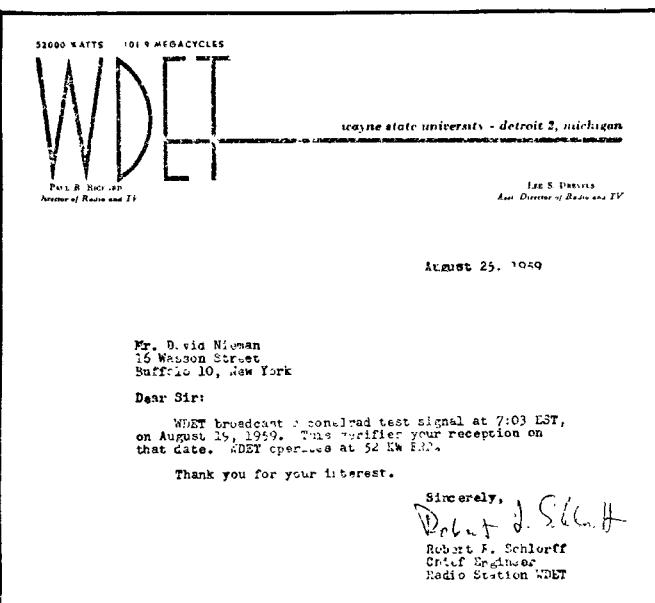
12/2 Es	12/2 Es
1839-2015 Mexico City FM's	1939 <b>WFUZ</b> 93.7 FL Ocala, k
1840 <b>WRRS</b> 90.7 FL W. Palm Beach, tent., c	1940 <b>WVTI</b> 107.1 FL Melbourne, r, ad
1842 <b>WCIE</b> 91.1 FL Lakeland, g	1943 <b>WEFL</b> 105.9 FL De Land, calls
1843 <b>XHLM</b> 96.5 MCR Cuernavaca, tent. L, SS	1944 <b>WYKS</b> 105.5 FL Gainesville, ad
1844 <b>XHRN</b> 96.5 VER Veracruz, ads	1945 <b>WGNE</b> 98.5 FL Panama City, calls
2025 "Estas Es Rn"	1953 <b>WIVY</b> 102.9 FL Jacksonville, calls
1847 <b>XHOM</b> 107.5 VER Coatzacoalcos, L, SS 1140	1954 <b>WNFI</b> 99.9 FL Palatka, ads
1849 <b>X???</b> 103.7 VER Jalapa, ad	2000 <b>XHZN</b> 99.9 MIC Zamora, was 92.1
@1902 "Optical Barcelona" on Jalapa	"Estereo color" ?? ads in Zamora
"cientos tres" 103, r	2002 <b>WUCF</b> 89.9 FL Orlando, reggaes mx
1850 <b>XHHS</b> 102.9 VER, Ver, r, ads	2006 <b>XHRA</b> 89.9 JAL Guad., calls +
1850 <b>WCXO</b> 102.7 FL Pompano Beach, r, K-102	"Stereo soul", r
1851 <b>WJWF</b> 106.7 FL Ft. Lauderdale, ad	2024 <b>XHPS</b> 93.3 VER Ver, ads
1851 <b>WHLY</b> 106.7 FL Leesburg, r Y106, r	2029 <b>XHNF</b> 97.7 NAY Tepic, \$, r, calls +
1857 <b>XHPR</b> 101.3 VER Ver., ads	"Novienta Ocho" (98)
1907 <b>XHRC</b> 91.7 PUE Puebla, Estereo	2036 <b>XHME</b> 89.5 JAL Puerto Vallarta, ads, L
Amistad	12/10 MS
1907 <b>XHRJ</b> 92.5 MEX Toluca, r	1144 <b>WSB</b> 98.5 GA Atlanta, tent."..at 99-FM"
1909 <b>WRYO</b> 98.5 FL Crystal River, g,	1202 <b>KCFO</b> 98.5 OK Tulsa
1912 <b>WHOO</b> 96.5 FL Orlando, k	473
1913 unID 90.8 or 90.9 Mexico, nx station, ad sent. Las Palmas	12/11 MS
1915 unID 92.1 Mexico, "Crystal FM stereo" in SS "Romantic mx" but then played rock, XHPT Cordoba?	1046 <b>WJGS</b> 98.5 MI Houghton Lake, calls 1260
1921 <b>WPCV</b> 97.5 FL Winter Haven, calls	12/12 tr
1922 <b>WWKA</b> 92.3 FL Orlando, ads	1039 <b>KSNN</b> 98.7 NM Truth or Consequences, \$, rock oldies, ID
1924 <b>WJYO</b> 107.7 FL Mount Dora, Joy-108	1053 <b>KASK</b> 103.1 NM Las Cruces, Love 103, r 199 Es
1926 <b>XHSH</b> 95.3 DF Mex., ID	1517 <b>XHRN</b> 96.5 VER Veracruz, ads
1928 <b>XERC</b> 97.7 DF , ID	1535 <b>XHNE</b> 100.1 VER Coatzacoalcos, r, \$, ads
1929 <b>WECH</b> 98.9 FL Tallahassee, FM-99	1540 <b>XHOM</b> 107.5 VER Coatzacoalcos, m, ads 1140
1931 <b>WSHE</b> 103.5 FL Ft. Lauderdale, calls	(Oh-oh, out of time, Jim's report will be continued next month, sorry, DB.)
1934 <b>WBW</b> 105.1 FL Orlando, ads	1359

## QSL CORNER

Thomas J. Yingling, jr.  
221 Pinewood Road  
Baltimore, MD 21222-2345  
1-301-282-5649

SC	WRJA	88.1	Sumter, P. O. Box 1836, 29150. Send back my prepared card after 1 followup report. Signer from Engineering Manager, but name is unreadable. Reply in 2 1/2 weeks.
VA	WNVZ	104.5	Virginia Beach, 160 Newtown Rd, 23462. Letter from Juanita M. Myuck with bumper sticker & Z-104 button. Holbrook
MD	WHFC	91.1	Bel Air, Harford Community College, 401 Thomas Run Rd, 21014. Letter from John A. Davlin, Station Manager & Asst. Professor, Mass Communications. Reply in 2 weeks.
	WHFS	99.1	Annapolis, box 829, 21404. Send my prepared card signed by Stephen Hopp, Operations.
PA	WSHH	99.7	Pittsburgh, Broadcast Plaza, Crane Ave. 15220. Send my card signed by Craig A. Kopcho in 4 months after followup. Holbrook
IA	KHKE	89.5	Cedar Falls, Univ. of Northern Iowa, 50614. Letter from David Hays, Public Information Asst. Cooper
NY	WCTO	94.3	Smithtown, Box 74, 11747. Letter from Marc Sophos, Asst. CE. Cooper
ME	WKTJ	99.3	Farmington. Letter from Al Iharguen, CE Cooper
	WKCG	101.3	Augusta, Box 307, 04330. Letter from Joseph R. Roy, Eng. Cooper
	WPIG	95.9	Saco, Box 567, 04072. Letter from George Michael, Prog. Dir. also send coverage-map & bumper-stickers. Cooper
	WBYC	94.3	Bideford, 124 Main St, box 667, 04005. Letter from Lance G. Bird, Program Director. Cooper
	WEBI	92.1	Sanford, box 1220, 04073. Letter from Andy T. Armstrong, CE also send coverage-map. Cooper
	WKZS	99.9	Auburn, Washington St. Letter from Herbert Wiles, CE. Cooper
VA	WNRN	94.9	Virginia Beach, 2 500 E. Liberty St. Chesapeake, VA 23394. Letter from Charles Payne, Owner/Pres. Holbrook
	WNSY	97.3	Newport News 2 2302 W. Mercury Blvd. Hampton, VA 23666. Letter from Will Bevis, CE in 1 month Holbrook
	WUVA	92.7	Charlottesville, Station #1, 22904. Letter from Clifford Cantrell, Gen. Manager who tells of their 220 watts atop Carter Mtn., antenna 900' above average terrain & 1430' above sea level. Station is student owned & operated commercial fm station as there is only 6 in the country. Holbrook
PA	WGLL	92.1	Mercerburg, P. O. Box 92, 17236. Letter from Pete Low, VP & GM in 7 days for qsl. Holbrook
	WXTU	92.5	Philadelphia 2 One Bala Cynwyd Plaza, Bala Cynwyd, PA 19004. Verie notation on my report and copy of station license, from an unreadable signer & title! Holbrook

-----  
This month reporters are Ernest R. Cooper & Hank Holbrook. & the copy from the past on the left is from David Nieman of WDET-FM qsl from 1959!  
Upcoming next month is TV-QSL's and also I hope to have it done my computer. I got the Commodore SX-64 for Christmas & will be printing on an Panasonic KXP-1090. So 73's to then!



Mr. David Nieman  
15 Watson Street  
Buffalo 10, New York

Dear Sir:

WDET broadcast a soundrad test signal at 7:03 EST, on August 19, 1979. This verifier your reception on that date. WDET operates at 52 KW FM.

Thank you for your interest.

Sincerely,  
Robert F. Schlaff  
Chief Engineer  
Radio Station WDET

# ANTENNA NEWS

Doug Dorntos  
3009 Port Sheldon  
Hudsonville, MI 49426

Dear Fellow DX'ers,

Just today I received a copy of Microwave Filter Companies C/84 catalog of filters and traps. This is one of the more excellent catalogs I have seen with traps, filters, and band-separators for every possible use. Although I have been familiar with NFC for quite some time, it has been only with their TVRO related products. Their reputation is unequalled in that area and I have no reason to believe otherwise about their other product. For a real treat check it out: Microwave Filter Company, 5743 Kinne St., East Syracuse, NY 13057. (free) Their products are however quite the opposite of free, they are not cheap to say the least.

As long as I'm giving addresses out I must eat a little crow for neglecting to include Channel Master's new address in the December directory. It is: Channel Master, Industry Park Drive, P.O. Box 1416, Smithfield, NC 27577. Thanks to Ed Frye for the gentle reminder.

Also coming in the mail today was an information package from a company called Bullseye products in Roseville, MI. They make a selection of tubing clamps which they show many do-it-yourself uses for including making your own tower sections by bolting conduit together with these things. Maybe the following quote from their brochure will sum up why I don't have much confidence in the idea. "Please note that we do not endorse these units, (towers) they are merely one person's idea...these units are not free standing and do require support...common sense should apply." I guess!

Rick Wertman, club member from New York, has started an antenna business through which he would be very willing to supply club members with antenna supplies. Brands which he makes available are Channel Master, Winegard, Jerrold, Lance, Blonder-Tongue, and Antennacraft. Rick also has some good sources of supply for coaxial cable of various sizes. His address is: 315 Pine St., Lockport, NY 14094. All prices will be much less than list.

## SCANNER ANTENNAS

This discussion will be divided into 2 sections, mobile and base types. What must be understood though is that with both types we are talking about an antenna which must cover an extremely broad range of frequencies; from about 25Mhz to 50Mhz, from 130 to 174Mhz, and from 450 to 512Mhz. This being the case it is extremely difficult to say that this or that antenna is the best, period! Almost every scanner antenna has its' weak points and its' strong points. Therefore, this month's column will discuss mostly theory and how it relates to what is on the marketplace rather than a recommendation of what to buy. Also, since this is a very hobby-oriented market, it is quite possible that I will not mention your favorite antenna due to the simple fact that I do not know it exists. If you think that this is the case, please drop me a line.

MOBILE \*\*\* The 2 major companies of mobile scanner antenna are Antenna Specialists and Hustler. The main differences are in the mounting method and in the bands covered. Shown below is a chart showing major differences.

### MOUNTING METHOD/BRAND      BANDS COVERED

	ALL BAND 25-512Mhz	130-174Mhz And 450-512Mhz	25-50Mhz and 130-174 Mhz
ROOF/ A-S	MONR 33	MONR 1	
Hustler	MOR		
TRUNK/ A-S	MONR 32	MONR 2	
Hustler	MOT		
MAGNET/A-S	MONR 51	MON 9	
Hustler	MOM		
CUTTER/A-S		MON 30	MONR 12
COWL/ Hustler	MOU		

### Scanner Antennas (cont.)

Antennas of the same frequency category are basically the same performance wise, the only difference being in the mounting. The way that multiple band whips work is that a coil is placed somewhere in the whip so that the entire whip is electrically long to cover the low-band. However, the coil and length of antenna above it are effectively blocked out for the high frequencies by a trap at the bottom of the coil so that only the lower, shorter portion of the antenna is used for the higher frequencies, it being resonant at a higher frequency. Also, the whip(s) can operate in both the 1/4 and 5/8 wavelength modes thereby extending their usefulness even further. It can be noted here that performance most probably is higher on the antennas which do not attempt to cover all bands but obviously, overall usefulness suffers. Talking about usefulness brings one more item to mind. Both A-S and Hustler make a coupling device which allows the scanner to be hooked up to the standard am-fm antenna along with the car stereo. Although the performance of this set-up will not equal a true scanner antenna and will also degrade fm performance abit, it does keep a minimum of antennae on the exterior of the vehicle. One last note, depending on brand, you may find that your fm booster helps reception quite abit in the 130-174 band. If this is working good for anyone let me know what brand booster it is and I'll print it for other's information. One more last note, Radio-Electronics Magazine did a non-technical review of the Hustler NOM antenna in January 1980, you may find it in your local library.

BASE \*\*\* OUTDOORS \*\*\* There are 5 types of commercially available scanner base antennas currently on the market: The ground plane, the dipole, the dipole cluster, the discone, and the log periodic. Ground plane types are very simply big brothers of the mobile types just discussed. Examples from the A-S line are listed below.

MON 3	130-512Mhz
MON 8	25-50 & 130-174Mhz
MCLR31	25-512Mhz
MON 38	" " " (economy)

Dipoles are the simplest form of antenna with about the only version for PSB use left on the market being the Winegard GM-24CC. Because of poor multi-band performance, this type of antenna is losing popularity.

Dipole clusters on the other hand hold a respectable share of the market and for a good reason: performance. Basically all that they are is a cluster of dipoles each cut for the center frequency in each band of interest. Examples of this type are the Channel Master 5094 and the top of the line Radio Shack model. Although these two look entirely different, the theory behind them is the same. It is my personal belief that the Channel Master 5094 is the best omnidirectional PSB antenna available on the market at this time.

The discone is an antenna type that has been around for quite some time in one form or another. Original discones were made from solid metal or screen and consisted of a cone with its' apex pointing skyward and a disc "balanced" on top of it. Being somewhat hard to keep up in a windstorm, the PCB discones of today are made of elements approximating the shape of a disc and cone. The advantage of this type of antenna is the tremendous frequency range it can work with. Currently both Hustler and A-S market such a product. Both work very well.

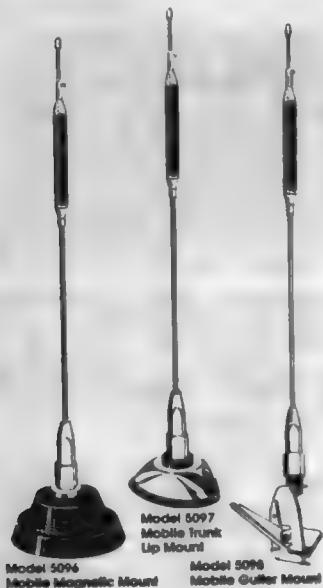
The last type of available antennae is the log periodic type of which there is only one that I know of, the Grove Scanner Beam. This is the only directional antenna I am aware of for general scanner use. It looks about like a VHF tv antenna mounted with the elements vertical. In fact that is almost exactly what it is. If you are interested in reading a review of this product, see Radio-Electronics Magazine, October 1981. If however, you would like to make a similar product out of a small UHF-VHF tv antenna, Mr. Grove has been so kind as to write an article on this himself and you can find that in the August 1979 issue of Popular Electronics. These are excellent antennas for working various headings, skip, etc., but are not the antennas you want for listening to 2-way communication when it's coming from opposite directions from your listening sight.

**BASE \*\*\* INDCORS \*\*\*** Although you can dx with the telescoping whip supplied with most scanners, for very little money you can do quite a bit better by making some simple dipoles out of 300 ohm twin-lead and attaching them vertically to your wall. These can be separate dipoles or you can try your hand at making a cluster arrangement. With a simple balun to connect to some coaxial cable you're all set. While we're on cable, I would rate RG59 (tv coax) a quantum leap better than RG58 (cb ccax). Going into the higher frequency bands you will notice quite a difference between these two. Back to homespun antennas taped on the wall, you will probably have to bend the ends of a lo-band dipole over due to its' overall height being greater than the 8 feet given in most residential homes. If this is the case, it would be best to bend them to run along the corner of the ceiling-wall and the floor-wall rather than to bend them all the way back on themselves. An antenna made in this way will (or should) outperform the stock whip by a great margin.

**PREAMPS \*\*\*** Most PSB preamps that have been commercially available have been discontinued. Although the reason is unclear, I would guess that it has something to do with the fact that many scanners do not take well to overly strong signals at all. Maybe many of the preamps were returned as defective when really the problem was in the scanner. Anyway, there is probably at least one dx'er who would still like to try hooking a preamp onto his scanner. The best solution I have found is to use an economy model U-V tv preamp. I suggest the economy types because they usually do not have any out of band filtering as the better units often do. I know a scanner dealer in northern Michigan who has done this on several occasions and has been very successful.

ADDRESSES: Grove Enterprises  
Erasstown, NC 28902      Hustler Inc.  
3275 North B Ave.  
Kissimmee, FL 32741

Thanks for reading. *Clay*



This month we have photos taken in August & September of 1984 by long-time DXer, Bill Eckberg from Dixon, IL.



# TELEVISION NEWS

Bill Farber, editor  
336 Atlantic Street  
Bridgeton, NJ, 08302



KARD-14 West Monroe, LA  
651 mile tr from Aug. 25, 1984



WPTT-22 Pittsburgh, PA  
491 mile tr from Aug. 26, 1984



WFMJ-21 Youngstown, OH  
450 mile tr from Aug. 27, 1984



WSEE-35 Erie, PA 481 mile  
tropo from Aug. 27, 1984



Bill Eckberg's photos will  
continue next month.

Dave

WLOS-13 Asheville, NC 558 mile  
tropo from Sept. 12, 1984

## APPLICATIONS FOR NEW TELEVISION STATIONS

CH ERP HAAT STATE/CITY/APPLICANT  
48 1000 208 WI Chippewa Falls; Pat Bushland  
49 4360 1520 FL Tice; Ralph W. Gabbard  
49 5000 1018 FL Tice; Qualivision of Lee City.  
49 5000 800 FL Tice; Tice Television Company  
49 5000 1126 FL Tice; Florida Telecasting Inc.  
49 5000 192 FL Tice; Reginald L. Duff  
60 2980 910 FL Sebring; Focus Bc't Communica's  
25 5000 1423 FL Tequesta; Tequesta Be'g Corp.  
40 2800 954 FL Crockett; Drew A. Hayford  
21 2323 1249 FL Nederland; TBC Broadcasting  
10 316 1269 FL Gallup; Grand Canyon Televis'n  
10 316 155 FL Gallup; Haynes Communications  
20 736 -114 FL Hilo; Josie Moore  
10 316 43 FL Gallup; Contemporary Communic.  
60 5000 1244 VA Roanoke; Roanoke TV 60 B'c'ing  
51 5000 454 FL Tolleson; Great Arizona Be'g  
68 87.1 341 FL Clermont; Big Chief Broadc'ing  
51 5000 590 FL Marianna; H&W Broadcasting  
63 5000 1006 FL Palatka; American Communica-  
tions & Television Inc.  
63 5000 973 FL Palatka; Palatka Television Inc  
25 5000 1423 FL Tequesta; Tequesta Television  
25 5000 1423 FL Tequesta; Sandra Corr Jordan  
25 5000 1491 FL Tequesta; Tequesta Television  
Partners  
25 5000 1889 FL Tequesta; Zephyr Be'c'ing Corp.  
25 5000 993 FL Tequesta; Rodriguez-Barnett &  
Associates, Ltd.  
25 5000 1423 FL Tequesta; Martin Telecommun's  
25 4539 999 FL Tequesta; Old Salt Broadc'ing  
25 5000 1436 FL Tequesta; Tequesta Coastal  
Broadcasting Ltd.  
25 2500 515 FL Tequesta; G&I Ltd.  
25 5000 1424 FL Tequesta; Spirit Broadc'ng Corp.  
51 1618 459 KY Hopkinsville; Green River Group  
62 1000 480 ME Presque Isle; Allen M. Weiner  
53 5000 784 FL Tulsa; Kilgore Broadcasting  
(Thurman's behind this one)  
50 5000 925 TN Memphis; Burwood Broadc'ng  
55 1636 522 TX Conroe; Conroe Community Edu-  
cational Outreach  
55 3160 1132 TX Conroe; Wood Broadc'ng Co.  
55 1000 847 TX Conroe; G-A Communications Inc  
55 1500 1545 TX Conroe; Conroe Broadc'ng  
40 1000 332 TX Crockett; Hopkins Broadc'ng  
52 5000 1143 TX Fort Worth; Halton City Be'c'ng  
60 2222 1484 TX San Antonio; Vela Broadc'ng Co.  
60 5000 1483 TX San Antonio; Thomas TV Assoc's  
60 2000 1400 TX San Antonio; Television Corp.  
60 5000 1433 TX San Antonio; Spanish American  
Broadc'ng Inc.  
60 5000 1422 TX San Antonio; San Antonio Be'c'ng  
60 5000 1370 TX San Antonio; Pro 60 Communica's  
60 5000 1319 TX San Antonio; Fiesta Communica's  
60 5000 1035 TX San Antonio; Nueva Vista Pro-  
ductions  
60 1000 809 TX San Antonio; Salinas-Oatman  
60 5000 1368 TX San Antonio; Amisted Communica's  
60 5000 1348 TX San Antonio; San Antonio Video  
60 3500 975 TX San Antonio; Hispanic Broad-  
casting of San Antonio

60 5000 1358 TX San Antonio; TV60 Partnership  
39 23 730 IN Fort Wayne; Fort Wayne Public  
Television Inc.

54 5000 680 NE Omaha; Omaha Channel 54  
59 - - NJ Vineland; Petrus Broadc'ng  
(Which requests facilities of  
4RBV, ch. 65. Fat chance; the  
transmitter for ch. 65 is too  
close (by 21 miles) to WNJT,  
ch. 52 in Trenton to be used  
for ch. 59. You think they  
would have learned that when  
they filed their first applica-  
tion (see 12/84 VUD).)

## APPLICATIONS RETURNED

TX San Antonio; ch. 29; Santa Gertrudis Broad-  
casting (CP was granted to Alamo Broad-  
casting two years ago, but since they never  
got call letters, It's possible that the  
permit had been contested.)

FL Miami; ch. 35; Rene Antonio Lopez  
Also returned: All the applications for edu-  
cational channels by Community TV Associates  
listed in the 12/84 VUD. According to Larry  
Fuss none of them had engineering data.)

## APPLICATIONS DISMISSED

MI Warren; ch. 38; Michigan Channel 38 Inc.  
KS Lawrence; ch. 38; Kansas Family TV Ltd.  
CA Santa Rosa; ch. 62; Black Television Work-  
shop (FCC Review Board decision)

NY Jamestown; ch. 26; Rutherford Publications  
NJ Burlington; ch. 48; Delaware Valley TV Co.  
MN Duluth; ch. 27; Haynes Communications Co.  
TN Cleveland; ch. 53; Philip B. George  
VA Charlottesville; ch. 64; Charlottesville  
64 Ltd.; Locus Positentiae (at their re-  
quest).

FL Orlando; ch. 65; Metro Broadc'ng Inc.;  
Winter Park Communications Inc. (speci-  
fied Winter Park, FL); reversal of initial  
decision which granted Metro's application.

CA Vallejo; ch. 66; Golden State Television  
Inc. (Initial decision)

AZ Green Valley; ch. 46; Skyline Communica-  
tions Group

CA San Luis Obispo; ch. 33; Morro Rock Re-  
sources Inc.

KY Pikeville; ch. 51; Ralph W. Gabbard  
TN Nashville; ch. 58; Nashville TV 58 Inc.  
TN Cleveland; ch. 53; Philip B. George (at  
his request; four others still contending  
for the channel.)

Further note on Charlottesville, VA: The only  
two contending applications for ch. 64 were  
both withdrawn, making that channel dormant.

## CONSTRUCTION PERMITS GRANTED FOR NEW STATIONS

35 5000 722 MS Vicksburg; Vicksburg Broad-  
casting Group  
69 5000 387 RI Block Island; John Joseph  
Fuller & Jerrall E. Kauts  
62 2421 2010 CA Santa Rosa; Bay North Edu-  
cational Television (Review Bd)  
26 750 698 NY Jamestown; Jamestown TV Asso-  
ciates  
42 5000 1563 NE Omaha; Pappas Telecasting Inc  
(Review Board decision)

two different construction permit modifications floating around, supposedly granted close to each other. The first one, granted 9/27/84, has 3258 kw max; 1541' AAT; 1517' AG/1647' ASL; coordinates 30°35'18" / 87°33'16"; TL to Hwy 87, 0.9 mile south of Hwy 10 in Elsancor. A later modification has 3289 kw ERP, 1493.2' AAT.

#### PITTSFIELD, MASSACHUSETTS

Pittsfield Community Television Association filed a notice with the U.S. Court of Appeals in Washington, D.C. to review the FCC's decision denying its application for channel 51 and granting the application of Housatonic Broadcasting Company.

#### PETITION TO REASSIGN NEW YORK CITY VHF ASSIGNMENT TO LONG ISLAND

The FCC has denied a petition by the Long Island Coalition for Fair Broadcasting Inc. to delete an unspecified VHF television channel assignment from New York City and reassign that channel to Long Island. The Coalition argued that the New York City VHF stations do not have a primary service obligation to Long Island and therefore are not meeting the informational needs of that audience. (As you may recall, the State of New York passed a law barring the publication and sale of any newspapers on Long Island, as well as the broadcast of any local news on AM and FM station on the Island.) The Coalition also claims that Long Island has taken on all the attributes of a distinct community except for the existence of a VHF commercial service available to other, more traditionally developed, population centers.

The FCC, in its infinite wisdom, brought up several reasons for denying the petition. The petition did not specify which channel, nor to which community it should be reassigned to. Nor did the coalition express an intention to operate a station on a reassigned channel. Since the petition proposed that the affected station's transmitter remain in New York City, it could not meet the FCC's coverage requirements for the whole island.

The FCC's general scheme in channel assignments provided VHF channels for central cities of metropolitan areas and UHF channels for smaller areas.

#### LOS ANGELES STATIONS VS. THE HANDICAPPED

The FCC had affirmed a staff action of March 30, 1983 which renewed the license of KTLA-TV in Los Angeles and approved its transfer of control from Signal Companies Inc. and the estate of Inc. S. Autry to Golden West Television Acquisition Company.

Sue Gottfried and Stanley Fleishman, representing the California Association of the Physically Handicapped, had opposed the station's renewal and transfer of control, and when the Mass Media Bureau granted the station's applications they petitioned the FCC's Review Board to reconsider the decision. They objected that KTLA-TV had not captioned its programming for the hearing impaired, had not made a commitment to improve programming, and had made no commitment to hire and promote qualified handicapped persons.

But the FCC held that, in accordance with

a decision made by the Court of Appeals some time ago, said that it was not responsible for enforcing Section 503 of the Rehabilitation Act, which requires that government contractors hire qualified handicapped persons.

Meanwhile Gottfried, CAPH, and Darrell McDaniel Independent Living Center have gone a step further with the license renewals of the other Los Angeles stations: KCOP, KCBS, KTTV, KNBC and KABC. They had opposed the original grants of license renewals, petitioned the FCC to reconsider the license renewals, and, when the FCC refused to reconsider, filed a notice with the U.S. Court of Appeals for the District of Columbia. Very likely they will take the KTLA-TV case to the Court of Appeals also.

#### DBS STATUS

When the FCC granted the interim applications for DBS operation, they were to be subject to the outcome of the 1983 Region 2 Administrative Radio Conference (RARC-83). The applicants would have until January 5, 1984 to modify their construction permits to conform to the Final Acts of RARC-83, and until July 17, 1984 to demonstrate due diligence requirements. Due diligence means that they must have completed contracting for construction of the satellite within one year of the grant, and having a satellite in operation within six years of the grant.

CBS Inc., the only one of the original applicants to advocate high definition television, dropped out of the DBS race, and its construction permit was cancelled by the FCC.

DBSC signed a contract to have Ford Aerospace construct two satellites, but since the contract is conditional upon DBSC's ability to secure funding, the FCC has not yet assigned frequencies and orbital slots yet.

Graphic Scanning Corp., bogged down in an effort to assert its qualifications as a licensee for an answering service, had fallen behind schedule and requested an extension of its deadline to fulfill its diligence requirements. The FCC refused to grant an extension, and cancelled its construction permit.

RCA Americom, in its application to modify its construction permit to conform to RARC, also made other major changes such as more channels and lower power, and proposed a later launch date. Since due diligence standards could not be met, the application for modification will be treated as a new application to be considered after the FCC completes processing of its second round of applications.

WU decided to drop out of DBS and its construction permit was cancelled.

STC, still going strong, was granted its modification and is authorized to launch two satellites to cover the entire continental United States ("CONUS") from an orbital position of 110° west longitude on DBS channels 6, 8, 10, 12, 14 & 16.

Dominion Video was granted authority to launch two satellites, each covering half-CONUS from an orbital position 119° west longitude on even-numbered channels from 6 thru 28. Dominion Video requested two more

channels for each of its two satellites, but that application will be considered after the FCC completes its processing of second round applications.

USBB was authorized to launch two satellites into an orbital position of 110° and 118° west longitude on channels 18, 20, 22, 24, 26 & 28. Each satellite will transmit all six channels to half-CONUS. An application by USBB for two additional channels for each satellite will be included with those applications to be processed after the second tier applications.

#### MORE Deregulation: BIGGER VBI AND HBI?

Under current FCC rules, the Vertical Blanking Interval is limited to 2 lines and the Horizontal Blanking Interval is limited to 11.44 microseconds. But with today's technology where a video signal is often processed many times between the camera and the transmitter, those standards have become difficult to keep. In 1978 the FCC adopted a policy in which violators of those standards would receive Advisory Notices instead of Notices of Violation while it looked into the matter. (That is, unless the violation became too serious, in which it would send a Notice of Violation). The National Association of Broadcasters suggested that the VBI maximum be increased to 2½ lines and the HBI to 12.2 microseconds.

On November 19, 1984 the FCC adopted a Notice of Proposed Rule Making in which it suggested that the present figures be retained, but that a note be added to them indicating that they are recommended values only.

One local observation: WRSW, channel 65, is no longer using STV in the evenings. In fact, it's not doing anything in the evening. The subscriber list got so poor that Womecto Home Theatre decided to drop the station. The station is still not over its financial problems. Its previous owner, Donald McNeans, is still trying to get it back. Others are also interested in buying the station.

Tom Holmes sent in a clipping from the 1/10 Charlotte Observer. W68BL in Charlotte, NC, plans to go on the air on 2/15, and will offer Premiere, a pay-TV service. Zenith decoder boxes will be sold instead of rented, and movies will be broadcast entirely on a pay-per-view basis. \$3.95 for each prime time movie and \$1.95 for afternoon movies. The station will show only two movies each night, and weekend matinees. The rest of the time, if at all, will be spent promoting Premiere. W68BL will transmit a 1 kw signal from the First Union National Bank building, and will reach homes within a radius of 25 to 35 miles.

Fred McCormack sent in a large list of updates and revisions to translators in his area. I also have a sizable list. In addition he sent me an article a few months ago which discusses low power television interference to cable systems. I'm planning to use these in next month's column. Those who already have a copy of the 1984 LPTV-Translator list and have changes to be made, please send them in. If you haven't ordered a copy yet, what are you waiting for?



#### NOBODY TOPS GAYLORD'S KHTV

KHTV Channel 29 in Houston, owned by the Bell Telephone Co., is a high-flying achievement of true Texas proportions: 20,000 feet.

Taking it from the top, there will not be a taller tower in Texas. And it will be the highest ever constructed.

Our tower's state-of-the-art antenna will deliver KHTV viewers a sharper picture, better color and clearer sound.

And of course, it will...

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KHTV Channel 29 in Houston, owned by KHTV Television - KHTV-TV Studios - KHTV-TV Sales/Business WMMB-TV Channel 21 - WMMB-TV News - WMMB-TV Newsroom - WMMB-TV Broadcast Company

KHTV Channel 29 in Houston, owned by the Bell Telephone Co., is a high-flying achievement of true Texas proportions: 20,000 feet.

Taking it from the top, there will not be a taller tower in Texas. And it will be the highest ever constructed.

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91.1 KXLI-TV  
BOX 3248  
BALTIMORE  
MARYLAND 21228

John Combs commented on the LPTV-XLTR List: "it seems like you list any LPTV/XLTR that is licensed or a CP, whether or not it ever went on the air or is still on the air. For instance, the Immokalee and Ft. Myers xlters have been off-air for at least 10-15 years. The TV shop that had the license to operate them is long since out of business. They were used in the days when WINK-11 was the only receivable signal in the area." The translators in both cities are still licensed to Leeko TV Inc. in Fort Myers. And you're right, John. With no way of knowing which of the thousands of translators are operating, the only thing that any translator list can do is list licensees and permittees. Apparently they still have the license, or somebody does. "I also contend that W29AB is much more powerful than the .015 shown." Probably right. They are 1 kw ERP. Most likely the 15 watts should have been 15 kw.

A postcard sent from John mentions that WJXT-4 and WTLV-12 in Jacksonville, FL, are jointly building a new tower. See the 10/84 VUD for more information on that tower. An article in a local paper said that ch. 25 in Orange Park, FL, plans to start up in 1985. (The station is owned by Clay Television but I have no address on it. Sorry, John.) Also, a LPTV on channel 10. (That's W10AX, 616' omnidirectional, 10 watts TPO. There were six applicants for the channel, and four of them specified the same coordinates that were in the construction permit. I don't know which one of them was granted the CP.)

Another article from John says that WJXT in Jacksonville, WPLG-TV in Miami, and WTSF-TV in Tampa are getting together to form the Florida News Network, which is intended to share statewide stories and increase exposure of Florida news throughout the country. It's the first state network of its kind in the country.

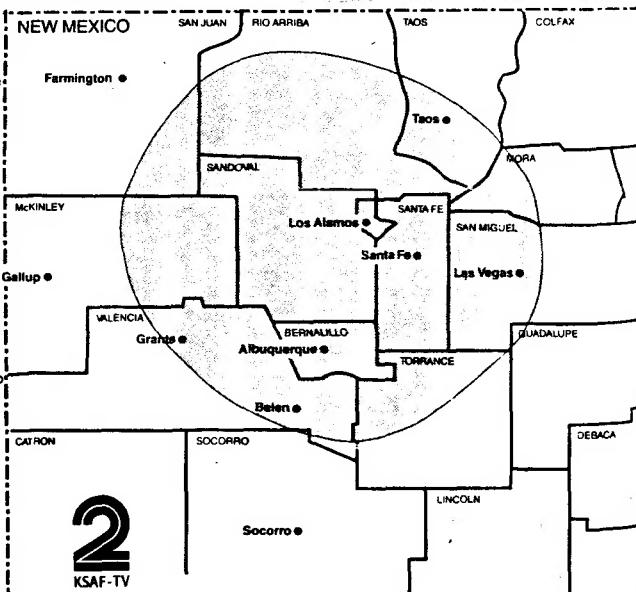
Randy Miltier was in New Mexico last October and visited the KSAF-TV facilities in Santa Fe. "I talked to the Director of Engineering, Massoud Salarvand, who is also the person to send reception reports to. (Address is 2009 Pacheco Street, Santa Fe, NM, 87501; phone # (505) 473-2002 -wbf) I asked him if the station's main target area was the Albuquerque market (Albuquerque has a 350,000 plus population and Santa Fe has about 55,000.... dumb question, right!) He said he didn't know much about mark-

ets and gave me the impression that Santa Fe was their only interest.... Originally KSAF wanted to construct their tower on the Sandia Range where all the radio and TV stations are, however, they got shot down because there just wasn't any room for one more tower. (strangely enough the Sandias shadow Albuquerque). KSAF had to go to a mountain near Santa Fe. The mountain didn't have a name so they gave it one....No Name (honest injun!)." Okay you guys, this is channel 2 and is a good shot for skip reception for a good part of the United States, so keep this information handy.

Randy sent in an article from the 11/29/84 San Jose Mercury News. KTSF-TV, ch. 26 is no longer broadcasting Selec-TV STV service. Vision Entertainment Ltd, which owns Selec-TV, went bankrupt. There were originally 32,000 subscribers in the area, but at the time they ceased STV service, there were only 7000 customers. The customers are now left with useless unscrambler boxes. KTSF-TV has been showing movies and Topper reruns until it can decide what to do with its evening schedule. (WTVE, ch. 51 in Reading, PA, also offers Selec-TV. Wonder what's going to happen with them.)

The 11/28 Mercury News, also sent in by

## Coverage Area



Randy, describes an interesting situation. KICU-TV, ch. 36 in San Jose, CA, is included in the San Francisco-Oakland market area, the fifth largest market. KNTV, ch. 11 in San Jose, is in the Salinas-Monterey market area, the 108th largest. Although the studios of the two stations are only a few miles apart, their coverage areas are different, putting them in separate market areas. But since KICU is in a larger market, it has to pay up to six times as much for syndicated programs as a station in the Salinas-Monterey market. Rather than pay the extra dollars to compete with other stations in the San Francisco market, KICU-TV decided to file an antitrust suit in U.S. District Court against the other stations and program distributors.

This next article from Randy also goes into that border area between the two markets.

KSBW-TV, ch. 8 in Salinas, started its new transmitter last fall, extending its coverage area into Santa Clara County. This opened up the possibility of creating a new market area out of the counties of Santa Clara, Santa Cruz, Monterey and San Benito, pulling them out of the San Francisco and Salinas-Monterey market areas. But in order for that to happen, KNTV, ch. 11 in San Jose, would have to transfer over to the San Francisco market. Then it, KICU-TV and KSTS (ch. 48) would have to get more viewers in that area than the average of each of the five largest San Francisco stations. The only problem is that KNTV would be taking a risk. KNTV originally joined the Salinas-Monterey market so that it could get ABC affiliation, since the San Francisco market was already well covered by ABC. If KNTV went back to the San Francisco market and the attempt to create a new market fails, it could lose its ABC affiliation. And, of course, it would have to start paying five to six times as much for syndicated programming as it is now paying. KNTV and KSBW-TV are splitting the cost of a special study by Arbitron Rating Company of viewership patterns, so apparently KNTV may be interested in the idea.

W.R. McIntosh sent a clipping from the 10/29/84 Los Angeles Times about KTLA, ch. 5 in Los Angeles. Not only is it going to stereo television, but it is airing The Love Boat with a second audio channel in Spanish. Its nightly news program will also be bilingual. Although Los Angeles already has a full time Spanish station (KMEM, ch. 34), its programming is almost entirely Mexican. The station is now trying to get as many stereo movies as it can.

John Ebeling sent a news clipping involving KXLI-TV in St. Cloud and KMSP-TV in the Twin Cities. As background, you may recall Ron Purdue's comments that KXLI is broadcasting much of the same syndicated programs shown in the Minneapolis-St. Paul stations, despite the fact that there is quite a large overlap of coverage areas. In checking with the FCC regulations, I found that since the communities of license (not with any regard to overlap of coverage) were more than sufficiently far apart, KXLI-TV was allowed to air the same syndicated programs as the Twin Cities stations. In this article from the 11/5/84

Minneapolis Star and Tribune, KMSP-TV, channel 9, asked the FCC to change the rules so that KXLI-TV would not be able to duplicate programming aired by Twin Cities stations. The rules presently allow stations whose communities are more than 35 miles apart to duplicate programming. St. Cloud is 60 miles from the Twin Cities. What hurts is that the Twin Cities stations have to pay seven to ten times as much for the same programs as KXLI.

The KMSP-TV petition to the FCC requested that KXLI-TV be considered a Twin Cities station, forcing it to pay the same rates and preventing it from duplicating programming. Stu Swartz pointed out that the KXLI transmitter, located between St. Cloud and the Twin Cities, and the fact that KXLI's sales office is in Minneapolis, indicates that KXLI-TV is more interested in the Twin Cities than St. Cloud. In ratings taken last spring KXLI averaged only 2% of the viewing audience of the Twin Cities, but nearly all of its audience consisted of Twin Cities viewers.

I'm wondering if KXLI's owner, L.E.O. Broadcasting, is going to do the same thing with its station in Seaford, Delaware when it goes on the air.

Frank Aden Jr. sent in an article about KWHF, channel 14 in Boise, Idaho. Some months ago Frank reported that KWHF, not yet on the air, would not be able to build its transmitter in the same area as the other Boise stations. Now it has other problems. Everybody's trying to figure out who owns the station. Abe Thiessen, president of Sterling Communications of Chattanooga, says he owns the station. But Steve Matlock, president of Matlock Communications also claims to own it.

Sterling was originally granted the Construction Permit (WOW! They didn't call it a license for once!) several years ago. Matlock and Sterling made an agreement to transfer control of the station to Matlock, and got FCC approval, according to Matlock. But Sterling says the FCC turned down the transfer of ownership. Matlock claims that he paid \$14,000 to cover expenses incurred by Sterling in securing its permit.

Matlock plans to create a satellite network of stations in Spokane, Idaho Falls, LaGrande (OR), Vernal (UT), and Winnemucca (NV) with programming originating from the Boise station. Thiessen proposes family oriented programming with an emphasis on local news.

Dave Nieman sent in two articles about efforts by WNEF-TV, ch. 17 in Buffalo, NY, to get approval by the Grand Island town board to build its new 1372' high tower at 871 Whitehaven Road, next to WUTV, ch. 29. This new tower should increase WNEF-TV's coverage area by 895 square miles. Dave says, "It looks like the first step in their plans to put channel 23 on the air. This should free the Elmwood Ave. tower for the channel 23 antenna." Channel 23 is WNEF-TV, which is owned by the Western New York Public Broadcasting Association, which owns channel 17.

Ed Shepherd says the signal from WBTV-3 (Charlotte, NC) comes in good in Hickory NC from their new tower. Ed was in Italy and tried to dig up some information on Italian

television, but things over there were confusing. "The hotel I was in seemed to have some sort of cable that carried lots of channels. Each channel also had a dial that could be turned to pick up another network. There were about 20 different stations and some were carried on more than one channel. I'm not quite sure how it works. Saw lots of stuff, though, a partial listing follows:

RAI 1 (Italian)  
RAI 1 (Italian)  
RAI 3 (Italian)  
GBR (Don't know what it stands for - Italian)  
ReteQuattro (Italian)  
TVS/Voxson (Italian)  
Musicbox (Italian MTV-type station)  
Rete A (Italian)  
Ch. 56 (Italian-mostly sports)  
Ch. 21 (Italian)  
TV6 (Italian)

"Also saw French & Monte Carlo TV but can't remember the network. If anybody out there knows how this system works I'd like to find out because it was very confusing."

I dug up an article from an old magazine, Television Quarterly, or something like that. The article, Television, Italian Style, was written by Bernard S. Redmont about two or three years ago. Here are some excerpts.

"At last report, Italy had 640 private TV stations." "In terms of area covered, Italy has ten times the number of stations as the U.S." "Proliferation developed when private interests took advantage of newly apparent legal loopholes. The courts shaved down the government monopoly of RAI (Radiotelevisione Italiana -wof) in 1976, by allowing private stations to operate 'locally.'"

"Many of the private stations are now grouped into 'networks,' by a makeshift system, using video cassettes. The private TV networks present their shows simultaneously, offering advertisers a national audience, by working five days ahead, and dispatching their video cassettes to affiliates by plane, train, truck and motor scooter."

The big three networks are Canale 5 (27 affiliates), Italia 1 (18 affiliates) and Rete 4 (23 stations). GRT is a syndicator that supplies programming to 20 affiliates, but the affiliates have freedom to make their own schedule. Similar to GRT is Euro-TV with 30 stations.

"In addition to this superabundance of channels, Italians also pick up Italian-language TV transmissions from Monte Carlo, Capodistria (Yugoslavia) and TV Svizzera in Switzerland, as well as French TV on Corsica. Until 1976, when the constitutional court broke the RAI monopoly, Italians could only relieve their boredom from RAI-1 by switching to an almost equally boring but somewhat more highbrow and left-wing RAI-2. By allowing free 'local' broadcasting, the court opened the way to a virtual free-for-all. Now most big-city residents of Italy have a choice of three RAI channels and often 15 private stations. Rome offers more than 30."

"When the local stations began in 1976, most were amateurish and badly financed. Many

delved into latenight poronovision.... Italian private TV acquired a bawdy reputation with such offerings as Hot Skin, Fanny's Secret Diary and The Vestal Virgin of Satan. These raunchy peep shows were eye-openers in more than one sense and kept much of the nation awake night after night for a long time." "All this has waned, but not vanished. Church leaders protested the blue shows. The feminist movement charged exploitation and demeaning of women. And in a few instances, the courts ordered some independent stations closed for obscenity, although no general program codes exist. What really did in the gay fare was that it didn't produce much commercial revenue." "In addition, the independent stations began to seek more respectability and prestige, vis-a-vis the public and Parliament."

Edward Frye sent a clipping from the 11/18 Albany Times Union: an article written by Debbi Snook, critical of Fred Malbone, general manager of WUSV, ch. 45 in Schenectady (or should that be Albany), who isn't saying much about when the station is going on the air, what type of programming it will have, how much it will cost to get the station on the air, or anything else. The article quotes him, "At this point we're not going to tell the market everything. We're assembling a little press release here, not with the intention of opening up everything and telling everything about the station or even letting anybody in for a tour." The press release said that the station would be on the air "early in December." Malbone refused to be more specific. Local viewers may refuse to believe him. Announcements of the station's expected sign-on have been echoing since early 1982. So have several extensions to a license (sic) initially granted to Union Street Video by the Federal Communications Commission." Malbone confirmed that movies, 'lots of movies,' will be part of WUSV, but ruled out local programming 'in the real immediate future.'" "And as for sports, Malbone said he is interested in broadcasting local games, 'if we can work out some sort of amicable deal with the franchisers.'"

I came across announcement for LPTV stations on channels 59 and 63 on Long Island. "What I find amusing are the reception 'instructions,' notably recommending twinlead for an outdoor UHF installation. Could 59 and 63's output be so low that the higher attenuation figures of coax might render their transmissions unwatchable?" I can't figure it out myself. Let me know when WUSV comes on and give me some idea of its program schedule.

Donald J. Fritz sent in an article from the 12/8/84 Los Angeles Times about Low Power TV. While much of the article is a rehash of background to the development of LPTV and economic aspects, there are several points of interest. Milwaukee's W55AS, a satellite of WCIU-TV, ch. 26 in Chicago, is promoted as a Spanish station in the ad a few pages back.

"The video menu on Milwaukee's Channel 55 is virtually identical to that of Chicago's Channel 26, a full power station whose owners control the Milwaukee outlet.

"W36AC, an outlet in McComb, Miss., halfway between Jackson and New Orleans, beams movies to subscribers who rent signal-decoder boxes for their sets.

"Alaska has a whopping 194 low-power stations; many of them are part of a state-run network designed to keep the capital, Juneau, in touch with Point Barrow and other remote communities. But some do strictly local programming-like a rock-music station in Anchorage.

"Channel 43, the low power station that went on the air in Hopkinsville last July, is drawing viewers and advertisers with its local news and farm shows." "The station's undisputed star...is an electronics graphics and weather-map generator"

Two letters from George Mileon (Actually some members sent me as much as three letters that are included in this month's column. Some of the letters I didn't get to in the December column, then my typewriter broke down as I began the January column. So I'm including about 2½ months of letters here.) "An article about channel 58 in Hyannis (MA) ...claimed that channel 58 was one of the most expensive LPTV operations in the USA. The article stated that the station invested more than a million in its operation. They have quite a good size staff and have produced quite a few local programs. They also have syndicated shows and carry CNN Headline News. They claim to reach Nantucket with their signal, but from what I have read their signal is unusually weak even for a low power station.

"Channel 64 in Providence is now in the TV Guide. (The usual syndicated programs and old movies like many of the other independent operations in the area.)"

"No word on channels 60, 62, and 66. As far as I can tell, none are on the air." (George is referring to WGOT, ch. 60 in Merrimack, NH, WFFF, ch. 62 in Lawrence, MA, and WVJ-TV ch. 66 in Marlborough, MA. None of them are on the air yet, despite having construction permits for about two years.)

An article George sent states that a Superior Court Judge granted a request by Franklin Graham, president of WFDG-TV, ch. 28 in New Bedford, authorizing attachments of up to half a million dollars each against John Lakan and William Barnstead, who went back on their agreement to buy 65% interest in the station. Lakan has been involved in some dubious business dealings which were reported in the Boston Globe.

Bruce Elving sent in an article about two LPTV stations granted construction permits for Lincoln, NB. Neighborhood TV Co., Inc. was granted channel 67, and will likely offer adult contemporary 24 hour music videos with local news interspersed. Neighborhood TV feeds its local stations by satellite from Phoenix. Vision Unlimited was granted channel 61.

Bill Draeb sent an article about WLRE-TV, channel 26 in Green Bay. The Norman Companies, Inc., which owns or controls 85% of the stock in WLRE-TV, has gone bankrupt. The station will remain on the air, but it is for

sale at about \$12 million.

Bill sent a copy of a letter from Central Michigan University to him, describing how its stations operate. Its two new stations, WCMW, ch. 21 in Manistee and WCMV, ch. 27 in Cadillac, are over-the-air repeaters.

WCMW-21 picks up WCMV-21, which picks up WCMW-TV, ch. 14 in Mount Pleasant. A chain of microwave relays carries the signals of WCMW-14 to WCMW-TV, ch. 6 in Alpena. From WCMW-6 the signals reach W46AC in Traverse City and W69AV in Leland. I noticed in Bill Draeb's reception report that he first logged WCMW-21 and WCMV-27 on 9/7/1984.

Speaking of reception reports, I found some more new stations just on the air that had been logged by club members. Bill Draeb logged WGK, ch. 52 in Kalamazoo, MI, on 10/2/84, an educational station paralleling the programming of WGVC, ch. 35. He also reported what was suspected for a few months: WOIO, ch. 19 in Shaker Heights, OH on 10/11. Roy Barstow logged WUSV, channel 45 (mentioned in the last page) transmitting a 3/4CBTP, so evidently they will be broadcasting soon. But Jeff Kadet had a logging which puzzles me. He mentioned that WJOM, educational channel 22 in Macomb, whose transmitter is only two miles from his house, went on the air on 10/1/84, with programming parallel to WJPT-14, obviously in Jacksonville. I have record of construction permits issued to West Central Illinois University for channels 14 and 22 back in early 1983, but no record of them having been granted call letters, or even having applied for them. It seems that somebody is being very secretive about these stations.

Could it be I was right about educational stations being fronts for covert CIA operations?

Jim Pizzi sent a clipping about a license (sic) being awarded to Linda Clevenger for a LPTV station on channel 31 in Farmington, NH. Jim has also been sending me questions about some of his translator loggings, which I have been trying to figure out. There seem to be a lot of translators popping up that aren't on any list in the Texas-Oklahoma area, many of them repeating KOKH, ch. 25, AFPA, ch. 10, KMTV, ch. 9, and KVII, ch. 7. Be patient, Jim. I'm still trying. I still haven't gotten Iron Mountain, Michigan straightened out yet.

Larry G. Fuss of Contemporary Communications supplied some information that was missing in the November and December columns. First the November column. The CP for Bloomington ch. 63 was 2510 kw at 1108' AAT; Ch. 22 in St. Joseph, MO was 1280 kw max at 790' AAT. Ch. 45 in Lincoln, NE was 770 kw at 500' AAT. According to Larry, the CP for Iron Mountain is for 31.6 kw at 655' AAT, which was granted on 9/27/84, which I had, except for the CP. Before that, I had another listing which was unfortunately complicated by two typographical mistakes. It should have read 31.6 kw, granted on 9/26/84. I noted the dates because there were two separate grants according to FCC releases. Evidently the 9/27 grant was a correction of the antenna height given in the 9/26 grant, which would explain why there was no CP given on 9/27.

On some of the call letter grants for new stations I couldn't find what channel they were on. Larry supplied them. WZDX, Huntsville, AL is ch. 54; KOTT in Vernal, UT, is channel 6; and KXON in Claremore, OK, is ch. 35. Also he corrects me about there being a construction permit on channel 45 in Minneapolis. I remember the channel being active lately, but only because of a few construction permits.

On the 1/2/84 column, Larry confirms that there is still an outstanding construction permit for WFFF-TV on Dothan, Alabama channel 60 despite the fact that Wireless Broadcasting applied for the channel recently.

I also mentioned the construction permit extensions granted four Charleston SC VHF stations, for which I had no record of any construction permits. Larry provided that information. All four stations have a CP to locate to a common tower at coordinates 32°56'11" / 91°26'42". WCBQ-2 has a CP for 100 kw at 1940' AAT; WCIV-4 and WCSC-5 are both 100 kw at 1826'; WITV-7 is 116 kw at 1728'. A CP for ch. 24 (WTAT-TV) calls for the same tower at 5000 kw and 1610'. The CP modification for Newark, AR, KLEP ch. 17 appears to be nothing more than a correction of coordinates. "The original CP specified 14.9 kw at 530 feet.... The application specifies the same power and height.... 14.9 kw is rather dinky." I have the original CP at 1386.7 kw max/1330.4 kw hor. and 520' AAT, with a subsequent modification to 126.18 kw max/121.05 kw hor with the same height and coordinates. So where did 14.9 kw come from? It may be dinky, but when you consider the station is owned by a public school system with a transmitter 1.3 miles north of Newark, it certainly doesn't need 1386.7 kw.

Bob Langridge learned from a reporter for the Quad-City Times that KLB, ch. 18 in Davenport expects to go on the air around Spring 1985, and KDAV, ch. 30, hopes to be on in late 1985. But, as Bob points out, the reporter described KDAV as a low power station, but had a CP for 5000 kw.

Locally, for some reason I can't figure out, the Philadelphia Inquirer decided to do an article on KLMG, channel 51 in Longview, Texas. Then again, the Inquirer habitually prints meaningless articles. What's really strange is that it refers to the station's having received a construction permit without calling it a license. I guess that's because it was written by a reporter for the Dallas Times Herald. Judging by the editorials and some articles, low levels of intelligence must be a qualification for employment.

Clara McLaughlin, graduate from Howard University and author of several books, and host of a local Houston Television station, decided to start her own television station. She picked Longview because the area didn't have any local television stations. Viewers in the area originally didn't know how to tune in a UHF station, but now local stores have a hard time keeping UHF antennas in stock. The station is a CBS affiliate, and reaches an eleven-county area. Although Mc-

Laughlin and half of the station's investors are black, there is no minority programming in the schedule. They know that Longview is not going to support a black station with black programming. But blacks in Longview who have supported the station are expecting KLMG to add minority programming soon.

#### CANADIAN NOTES FROM WALTER PATTON

##### CHANGES GRANTED

ALTA Harvie Heights; CBRT-13: to change from ch. 61 to 22; from 10 watts to 100 watts B.C. Tofino; CBUT-22, ch. 10: to change primary station from CBUT-7 to Anik (43 v) WFLD Bonavista; CJMB-TV, ch. 10: change from .23 kw to 12.7 kw

WFLD Grand Bank; CJOX-TV-1, ch. 2: change from 7.4 kw to 4.67 kw

WFLD Grand Falls; CJCN-TV, ch. 4: change from 26 kw to 55 kw

WFLD Stephenville; CJSV-TV, ch. 4: change from 775 w to 3.1 kw

QUE. Malartic; CFCL-TV-5, ch. 5: change primary station from CFCL (Timmins) to CBMT (ch. 6, Montreal). Still GBC; 17.1 kw

##### CALL LETTERS

ONT. Windsor: calls for ch. 22 appear to still be CKGN-TV-1 not CIII-TV-1 (218kw). However Mike Reid says the transmitter burned years ago and has not been rebuilt.

##### APPLICATIONS FOR NEW STATIONS

ONT. Belleville; ch. 53; 61.3 kw; to rebroadcast CICA (ch. 19, Toronto; TVO)

ONT. Kingston; ch. 38; 62.78 kw; to rebroadcast CICA

SASK Regina; ch. 13; 190 kw; Saskatchewan Ind. TV (Allarcom)

SASK Regina; ch. 13; 200 kw; Saskwest TV Inc.

SASK Regina; ch. 13; 190 kw; STN TV Network Ltd. (to rebroadcast Regina ch. 13)

SASK Saskatoon; ch. 4; 59 kw; Saskatchewan Independent TV

SASK Saskatoon; ch. 4; 57 kw; Saskwest TV Inc.

##### APPLICATIONS FOR CHANGES

SASK Norquay; CICC-TV-2, ch. 7: applied to change from 7.8 kw to 4.2 kw

CANCON is seeking to add WKZ-TV(7) ABC Detroit to its satellite package.

The two surviving Pay-TV companies have split the country between themselves. SuperChannel serves Manitoba and west. First Choice is in Ontario and east. Their French language service, Premier Choix is now only available in the east.



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